

1963

CENSUS OF
TRANSPORTATION



III

COMMODITY
TRANSPORTATION
SURVEY

Parts 3 and 4
SHIPPER GROUPS AND
PRODUCTION AREAS

CENSUS REGIONS AND GEOGRAPHIC DIVISIONS



OF THE UNITED STATES





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Volume III

Commodity Transportation Survey

parts 3 and 4

Shipper Groups and
Production Areas



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Acknowledgments

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PREFACE

The census of transportation, together with the censuses of business, manufactures, and mineral industries, is required by law under Title 13 of the United States Code, sections 131, 191a, and 224. The present transportation census presents statistics for the year 1963. The next such census will cover the year 1967 and future censuses are scheduled for 5-year intervals thereafter.

A large segment of transportation data is available from regulatory bodies, other government agencies, and private organizations. For that reason, the census of transportation was designed to collect the kinds of data that were not publicly available from other sources. The objective was to avoid duplication and fill important gaps in transportation information.

The 1963 Census of Transportation is the first national census of this type to be taken in the United States. It consists of four separate surveys: Passenger Transportation, Truck Inventory and Use, Commodity Transportation, and Motor Carrier. The first three surveys were taken on a sample basis; the motor carrier survey was based on a sample of truck carriers and a complete enumeration of bus carriers.

1963 Census of Transportation Publication Program

The 1963 Census of Transportation is comprised of four major surveys; each of which was conducted separately and independently. Final results are published in separate volumes, as described below.

PASSENGER TRANSPORTATION SURVEY (Volume I)

This survey consists of two parts:

Part 1—National Travel was based on quarterly interviews in 1963 with a nationwide probability sample of about 6,000 households. Data were obtained and tabulated for each of the four quarters in 1963, and an aggregation of these data was prepared to show travel for the whole calendar year. In addition, a panel of those households remaining in the survey throughout the four quarterly interviews served as a basis for analysis of annual travel patterns. The purpose of the national travel survey was to estimate the volume and describe the characteristics of out-of-town travel by the U.S. population during calendar year 1963.

Part 2—Home-to-Work Travel was based on a one-time interview conducted in October 1963 with a nationwide probability sample of approximately 6,000 households. The purpose of the survey was to obtain data on repetitive home-to-work movement of the American work force. The chief objective was to examine the national and regional requirements this movement exerted on existing local transportation resources.

TRUCK INVENTORY AND USE SURVEY (Volume II)

A probability sample of motor truck licenses was drawn in each of the 50 States and the

District of Columbia to obtain the characteristics and uses of the Nation's truck resources. Data for each of the 50 States, the District of Columbia, the 9 geographic divisions, and the United States as a whole, are contained in the volume.

COMMODITY TRANSPORTATION SURVEY (Volume III)

A probability sample of about 1 million bills of lading or other shipping documents was drawn from the files of approximately 10,000 manufacturers representing a universe of 250,000 plants to obtain information on the flow of commodities from the manufacturers to the market or redistribution points. The data were classified by Commodity Groups, Shipper Groups, and selected Production Areas and are tabulated by tons and ton-miles, means of transport, distances, and origin and destination areas. The volume is published in two books. The first book contains data for the Commodity Groups and the second book contains data for Shipper Groups and Production Areas.

MOTOR CARRIER SURVEY (Volume IV)

All bus carriers and a probability sample of truck carriers were used to estimate the size and characteristics of "for hire" highway carriers that are not subject to Interstate Commerce Commission regulation. Information was obtained on the form of ownership, principal type of service, total operating revenues, expenses, and selected nonfinancial statistics. The tabulations are similar to the major items collected by the Interstate Commerce Commission for small carriers under its jurisdiction.

Contents

	Preface	page iii
	Introduction	vii
PART 3	Shipper Groups	1
4	Production Areas	311
APPENDIX A	Definitions of Major Terms	557
B	Description of 3-Digit TCC Groups	559
C	Layout of Shipment Record	561



Introduction

General—The Commodity Transportation Survey was undertaken to measure the volume and characteristics of commodities shipped beyond local areas by the manufacturing sector of the American economy. The volume is measured in terms of tons of products shipped (i.e., originated) and ton-miles which combines weight and distance factors. The sample was selected from a universe of all the manufacturers in the conterminous United States, except those primarily distributing their commodities to local markets and those plants which involved special problems.¹ Types of data presented include means of transport, distance and weight of shipments, regions of origin and destination, and employment size of establishment.

Data for the Commodity Transportation Survey are published in two books comprising Volume III of the 1963 Census of Transportation. Each of these books contains two parts of the survey. Parts 1 and 2 in the first book contain data for commodity groups with emphasis on traffic patterns of specific commodities. Part 1 presents data for commodities classified on the 2-, 3-, 4-, and 5-digit levels of the Transportation Commodity Classification (TCC).² Data are shown for those commodities for which there were at least 500 shipping documents drawn in the sample and which did not involve disclosing the operations of an in-

dividual plant. In total, this part contains five tables showing distributions of specific commodities by tons and ton-miles classified by distance of shipment, means of transportation, and weight.

In Part 2, selected major commodity classes (classified on the 3-digit level) are used to present multidimensional data and to better define traffic patterns. In total, 53 groups of 3-digit commodities covering 55 commodities were tabulated in seven tables showing information on tons and ton-miles by distance, weight, and origin and destination of shipment. (See appendix B for a list of the 53 3-digit commodity groups presented.)

Parts 3 and 4 in the second book contain data for Shipper Groups and Production Areas. In Part 3, Shipper Group data are focused on manufacturers as shippers of commodities. Virtually all manufacturers in the Nation have been classified into 24 Shipper Groups which correspond closely to the main manufacturing divisions of the Federal Reserve Index of Industrial Production. The Shipper Groups reflect primary production sectors and are more or less balanced with respect to economic importance. Each Shipper Group consists of one or more industries as defined in the Standard Industrial Classification (SIC) at the 4-digit level. None of the SIC industries were split among Shipper Groups; therefore, comparisons with other statistics can be made on the basis of SIC. The SIC composition of each Shipper Group (and subgroup) precedes the statistical tables for that group.

In Part 4, Production Areas, some 25 industrial areas of the country have been selected as a basis for identifying and characterizing the geographic flow of commodities. Production Areas are made up of one or more standard metropolitan statistical areas (SMSA).

Description of Sample—The Commodity Transportation Survey was undertaken to measure the volume and characteristics of shipments to markets (or other destinations) outside of the local area of the plant, during 1963, by essentially all manufacturers in the 48 conterminous States and the District of Columbia.

A two-stage sample was used. The first stage involved the drawing of a probability sample of about 10,000 manufacturing plants

¹ Specifically, the universe from which the Commodity Transportation Survey sample was drawn was the entire mailing list used for the 1963 Census of Manufactures, except for the following industry classes: SIC 19, ordnance and accessories; SIC 2026, fluid milk; SIC 2051, bread and bakery products; SIC 2097, manufactured ice; SIC 2411, primary forest products; SIC 27, printing, publishing, and allied products. Ordnance and accessories presented security problems—the other products listed were distributed primarily to local markets.

² See *Commodity Classification for Transportation Statistics*, 1963, Executive Office of the President, Bureau of the Budget.

from the universe of about 250,000 plants in the United States. This step was done by stratifying the complete list of plants in the country into 24 "shipper groups." Each group was further subdivided into from two to five "shipper subgroups," making a total of 85 subgroups. The individual plants were then classified by plant size, based on number of employees.

Differential sampling rates were used to select a sample of about 400 plants in each of the 24 shipper groups, and to distribute the plants among subgroups and by plant size by the usual optimum allocation methods for a stratified sample.

The second stage of the sample design was the drawing of a probability sample of shipments from each plant for the calendar year 1963. This step was initiated by personal interview at each company's headquarters office to discuss the survey and to determine which one of several standardized sampling plans would be the most efficient for use with the company's existing filing and recordkeeping system.³ In nearly all instances, the actual sampling and recording of detailed information was done by company personnel, in accordance with instructions provided by the Bureau of the Census.

The sampling rate at each plant, in general, was designed to give every shipment a mathematically known chance of being selected, and to yield data for about 100 to 200 shipments from each plant. On the average, about 130 bills of lading or other shipping papers were obtained per plant, including some papers that were found to involve local shipments. After excluding local shipments and documents for industry classes excluded from the scope of the survey, the net sample gave detailed information for slightly more than a million shipments.

Sampling Variability and Reliability of Data—Data in this volume are derived from a probability sample and are therefore subject to sampling variability. The term "sampling variability" refers to the differences that would be expected between the results of a sample survey and the results that would have been obtained from a complete enumeration of all shipping documents.

Estimates of sampling variability are presented with the data in each Part to facilitate interpretation and analysis. In general, most data are subject to high sampling variability and should be treated as an approximate rather than a precise measurement of volume. This is particularly true with regard to detailed distributions.

³ Special sampling plans were developed for application in unusual situations.

Other Potential Sources of Error—In addition to sampling variability, the data are subject to "response errors" that may have arisen from misinterpretation of questions, failure to find and sample some files, or similar types of error. However, these types of error probably are relatively minor in this survey. Shipment data were obtained from 99 percent of the in-scope plants in the national survey. The sampling procedures at each plant were relatively clear and simple, and the precise facts (in about 9 out of 10 cases) were transcribed directly from individual shipping documents by company personnel. A high degree of quality control was exercised by the Bureau of the Census in the processing and tabulation stages.

Estimates of Weight, Distance, and Size of Shipment—The basic source document for weight, distance, and size of shipment is the individual shipping paper—the bill of lading, sales invoice, summary record, etc.

Estimates of total tons are shown in the first column of tables involving tons shipped. As mentioned above, these estimates are subject to sampling variability and response errors. The estimates of tons were made by multiplying the actual weight shown on the record for each shipment by the reciprocal of the sampling fraction for that shipment, and aggregating the expanded value. For example, if a manufacturing plant was selected at the rate of 1 in 5 and shipments within that plant were drawn at the rate of 1 in 20, the weight of that shipment would be multiplied by 100 (i.e., 5 times 20) for purposes of estimating total tons shipped.⁴

Estimates of total ton-miles are shown in the first column of tables involving ton-miles. These figures are the product of expanded weight times distance. For example a 10-ton shipment that moved between places that were 1,000 miles apart is equivalent to a 50-ton shipment that moved 200 miles. Both represent 10,000 ton-miles, although they differ in terms of both weight and distance.

The distance component is calculated by a computer program known as PICADAD. Distance is the *straight-line* miles between the origin and destination shown on the shipping paper, without allowance for circuitry in actual route used by the carrier. Straight-line distances are less than rail short-line miles or highway direct-route distances. On the average, railroad short-line and highway direct-route miles exceed the calculated straight-line miles by about 24 percent and 21 percent, respectively.

⁴ This is a simplified illustration of the basic principle. In actual practice, the computation of the expansion factors is somewhat more complex.

Part 3

SHIPPER GROUPS

Contents

	Page
Column Headings of Tables	2
Summary Tables	4
SHIPPER GROUP	
1 Meat and Dairy Products	17
2 Canned and Frozen Foods and Other Food Products, Except Meat and Dairy Products	29
3 Candy, Beverages, and Tobacco Products	41
4 Textile Mill and Leather Products	53
5 Apparel and Related Products	65
6 Paper and Allied Products	77
7 Basic Chemicals, Plastics Materials, Synthetic Rubber and Fibers	89
8 Drugs, Paints, and Other Chemical Products	101
9 Petroleum and Coal Products	113
10 Rubber and Plastics Products	125
11 Lumber and Wood Products, Except Furniture	137
12 Furniture, Fixtures, and Miscellaneous Manufactured Products	149
13 Stone, Clay, and Glass Products	163
14 Primary Iron and Steel Products	177
15 Primary Nonferrous Metal Products	189
16 Fabricated Metal Products, Except Metal Cans and Miscellaneous Fabricated Metal Products	201
17 Metal Cans and Miscellaneous Fabricated Metal Products	213
18 Industrial Machinery, Except Electrical	225
19 Machinery, Except Electrical and Industrial	237
20 Communication Products and Parts	249
21 Electrical Products and Supplies	261
22 Motor Vehicles and Equipment	273
23 Transportation Equipment, Except Motor Vehicles	285
24 Instruments, Photographic Equipment, Watches, and Clocks	297

COLUMN HEADINGS OF TABLES

TONS AND TON-MILES OF SHIPMENTS—MEANS OF TRANSPORT for

TABLE 1	SHIPPER SUBGROUPS
TABLE 3	WEIGHT
TABLE 5	COMMODITIES
TABLE 8	GEOGRAPHIC DIVISIONS OF ORIGIN
TABLE 10	EMPLOYMENT SIZE OF ESTABLISHMENTS

(item)	Tons and ton-miles of shipments	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown

TONS OF SHIPMENTS—MEANS OF TRANSPORT for

TABLE 2	DISTANCES SHIPPED
TABLE 4	WEIGHT
TABLE 7	GEOGRAPHIC DIVISIONS OF ORIGIN AND DISTANCE SHIPPED

(item)	Tons of shipments	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown

TONS OF SHIPMENTS—DISTANCE SHIPPED for

TABLE 6	COMMODITIES
TABLE 11	EMPLOYMENT SIZE OF ESTABLISHMENTS
TABLE 12	PRODUCTION AREAS OF ORIGIN

(item)	Tons of shipments	Percent distribution by distance of shipment								
		All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over

COLUMN HEADINGS OF TABLES — Continued

TABLE 9. TONS AND TON-MILES OF SHIPMENTS—GEOGRAPHIC DIVISIONS OF DESTINATION AND OF ORIGIN

Geographic division of origin	Tons and ton-miles	Percent distribution by geographic division of destination									
		All divisions	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific

TABLE 13. TONS AND TON-MILES OF SHIPMENTS—AREAS OF DESTINATION AND OF ORIGIN

Area of origin	Tons and ton-miles	Percent distribution by area of destination			
		All areas of destination	Production Areas	SMSA's outside Production Areas	Areas outside SMSA's

TABLE A. SHIPPER GROUP SUMMARY--MEANS OF TRANSPORT
(Tons of Shipments)

Shipper Group	Tons (thousands)	Percent distribution by means of transport							
		All Means	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
United States, total.....	¹ 1,334,838	100.0	32.8	25.9	16.2	-	24.5	0.5	0.1
1 Meat and dairy products.....	39,787	100.0	27.1	29.8	42.6	-	.1	.3	.1
2 Canned and frozen foods and other food products, except meat and dairy products.....	125,726	100.0	59.9	21.6	17.4	-	.7	.1	.3
3 Beer, beverages, and tobacco products.....	44,249	100.0	22.3	29.8	45.7	-	1.9	.2	.1
4 Textile mill and leather products.....	12,609	100.0	13.5	65.3	19.0	0.1	.1	1.8	.2
5 Apparel and related products.....	3,906	100.0	9.3	62.0	11.2	.8	-	16.3	.4
6 Paper and allied products.....	65,551	100.0	49.9	33.1	13.9	-	1.9	1.0	.2
7 Basic chemicals, plastics materials, synthetic rubber and fibers.....	79,916	100.0	54.2	23.4	9.5	-	12.3	.4	.2
8 Drugs, paints, and other chemical products.....	60,318	100.0	42.0	34.8	19.9	.1	2.2	.6	.4
9 Petroleum and coal products.....	398,066	100.0	8.0	10.2	7.9	-	73.	.4	-
10 Rubber and plastics products.....	8,884	100.0	25.4	63.4	8.7	.2	.3	1.8	.2
11 Lumber and wood products, except furniture.....	70,380	100.0	53.7	14.4	29.7	-	2.1	.1	-
12 Furniture, fixtures, and miscellaneous manufactured products.....	9,494	100.0	22.4	39.8	35.5	.1	.4	1.5	.3
13 Stone, clay, and glass products...	175,597	100.0	30.1	35.8	28.1	-	5.9	-	.1
14 Primary iron and steel products...	120,521	100.0	52.8	36.4	4.1	-	6.3	.3	.1
15 Primary nonferrous metal products...	18,862	100.0	51.5	33.9	11.0	-	2.9	.3	.4
16 Fabricated metal products, except metal cans and miscellaneous fabricated metal products.....	16,298	100.0	22.5	42.8	31.7	.1	.5	1.9	.5
17 Metal cans and miscellaneous fabricated metal products.....	12,787	100.0	27.1	55.4	15.0	.2	.9	1.2	.2
18 Industrial machinery, except electrical.....	5,876	100.0	21.0	65.0	8.2	.5	1.1	3.3	.9
19 Machinery, except electrical and industrial.....	14,130	100.0	37.0	50.6	9.7	.3	.2	1.9	.3
20 Communication products and parts..	2,391	100.0	22.2	56.2	9.0	2.8	.4	9.1	.3
21 Electrical products and supplies..	10,106	100.0	34.0	49.5	13.4	.2	.4	2.2	.3
22 Motor vehicles and equipment.....	34,717	100.0	51.2	42.2	5.7	.1	.2	.4	.2
23 Transportation equipment, except motor vehicles.....	3,242	100.0	35.5	38.9	21.7	.7	.8	2.0	.4
24 Instruments, photographic equipment, watches, and clocks.....	1,423	100.0	13.3	69.8	8.4	1.2	.2	7.0	.1

¹Because of rounding, detail may not add to total.

TABLE A. SHIPPER GROUP SUMMARY--MEANS OF TRANSPORT--Con.
(Ton-Miles of Shipments)

Shipper Group	Ton-miles (millions)	Percent distribution by means of transport							
		All Means	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
United States, total.....	¹ 619,908	100.0	36.4	14.2	4.6	0.1	44.0	0.6	0.1
1 Meat and dairy products.....	15,910	100.0	46.5	36.2	16.2	-	.1	.9	.1
2 Canned and frozen foods and other food products, except meat and dairy products.....	49,258	100.0	74.9	16.8	6.6	-	1.3	.2	.2
3 Candy, beverages, and tobacco products.....	13,615	100.0	53.5	27.5	15.6	-	2.8	.5	.1
4 Textile mill and leather products.	6,470	100.0	25.3	58.8	11.5	.1	.1	4.1	.1
5 Apparel and related products.....	2,183	100.0	10.0	62.1	6.7	1.5	.1	19.3	.3
6 Paper and allied products.....	26,849	100.0	70.9	20.7	4.6	-	2.4	1.3	.1
7 Basic chemicals, plastics materials, synthetic rubber and fibers.	36,397	100.0	61.8	13.8	3.7	-	20.3	.2	.2
8 Drugs, paints, and other chemical products.....	23,145	100.0	61.5	24.3	7.3	.2	5.4	.9	.4
9 Petroleum and coal products.....	274,436	100.0	4.3	1.7	1.1	-	92.8	.1	-
10 Rubber and plastics products.....	4,602	100.0	37.0	52.4	5.9	.3	.8	3.3	.3
11 Lumber and wood products, except furniture.....	41,500	100.0	83.8	6.7	6.9	-	2.5	.1	-
12 Furniture, fixtures, and miscellaneous manufactured products.....	4,467	100.0	41.4	35.9	18.1	.2	1.8	2.4	.2
13 Stone, clay, and glass products...	27,879	100.0	45.5	31.2	14.9	-	8.1	.2	.1
14 Primary iron and steel products...	34,033	100.0	61.7	24.3	2.3	-	11.2	.4	.1
15 Primary nonferrous metal products.	11,033	100.0	73.2	21.0	3.8	.1	1.3	.5	.1
16 Fabricated metal products, except metal cans and miscellaneous fabricated metal products.....	6,133	100.0	40.6	36.6	17.7	.2	.4	4.2	.3
17 Metal cans and miscellaneous fabricated metal products.....	4,655	100.0	41.6	46.9	7.0	.4	2.3	1.7	.1
18 Industrial machinery, except electrical.....	2,803	100.0	25.4	62.2	4.0	.9	.3	6.3	.9
19 Machinery, except electrical and industrial.....	8,678	100.0	51.5	40.0	4.5	.6	.6	2.6	.2
20 Communication products and parts..	1,537	100.0	28.1	49.5	3.9	4.3	.5	13.5	.2
21 Electrical products and supplies..	5,989	100.0	48.4	39.5	7.4	.5	.9	3.1	.2
22 Motor vehicles and equipment.....	15,877	100.0	69.8	26.2	2.9	.1	.3	.5	.2
23 Transportation equipment, except motor vehicles.....	1,445	100.0	33.0	44.0	16.0	2.1	.8	3.8	.3
24 Instruments, photographic equipment, watches, and clocks.....	1,015	100.0	28.2	57.8	3.4	2.1	.2	8.2	.1

¹Because of rounding, detail may not add to total.

TABLE B. SHIPPER GROUP SUMMARY-WEIGHT OF SHIPMENTS
(Tons of Shipments)

Shipper Group	Tons (thousands)	Percent distribution by weight of shipment					
		Total	Under 1,000 pounds	1,000 to 9,999 pounds	10,000 to 29,999 pounds	30,000 to 59,999 pounds	60,000 pounds and over
United States, total.....	1,693,741	100.0	3.0	7.8	12.9	29.7	46.6
1 Meat and dairy products.....	28,599	100.0	8.7	15.0	21.7	32.9	21.7
2 Canned and frozen foods and other food products, except meat and dairy products.....	82,051	100.0	1.6	8.7	14.8	30.1	44.8
3 Candy, beverages, and tobacco products.....	25,578	100.0	6.3	5.6	11.9	47.2	29.0
4 Textile mill and leather products.....	8,935	100.0	18.1	37.9	21.4	16.2	6.4
5 Apparel and related products.....	2,932	100.0	57.2	25.0	12.8	4.2	.8
6 Paper and allied products.....	39,283	100.0	2.8	11.0	20.2	29.7	36.3
7 Basic chemicals, plastics materials, synthetic rubber and fibers.....	41,996	100.0	.6	3.4	8.3	23.1	64.6
8 Drugs, paints, and other chemical products.....	42,998	100.0	3.6	9.2	14.9	29.3	43.0
9 Petroleum and coal products.....	111,393	100.0	.1	.7	2.5	21.6	75.1
10 Rubber and plastics products.....	7,221	100.0	10.0	24.8	29.2	29.0	7.0
11 Lumber and wood products, except furniture.....	52,105	100.0	.7	2.5	8.6	29.5	58.7
12 Furniture, fixtures, and miscellaneous manufactured products.....	6,933	100.0	28.9	30.6	23.1	12.4	5.0
13 Stone, clay, and glass products.....	101,642	100.0	.4	2.0	12.0	40.1	45.5
14 Primary iron and steel products.....	65,973	100.0	.4	3.0	6.7	36.8	53.1
15 Primary nonferrous metal products.....	10,257	100.0	2.9	11.6	15.4	29.1	41.0
16 Fabricated metal products, except metal cans and miscellaneous fabricated metal products.....	9,345	100.0	10.8	26.4	26.0	23.2	13.6
17 Metal cans and miscellaneous fabricated metal products.....	9,978	100.0	10.2	23.2	32.6	19.6	14.4
18 Industrial machinery, except electrical.....	4,432	100.0	13.5	26.8	19.6	21.6	18.5
19 Machinery, except electrical and industrial.....	10,968	100.0	6.4	16.3	28.1	25.4	23.8
20 Communication products and parts.....	1,835	100.0	14.5	28.4	38.8	10.2	8.1
21 Electrical products and supplies.....	7,604	100.0	11.5	19.3	46.5	15.7	7.0
22 Motor vehicles and equipment.....	18,559	100.0	1.6	30.8	21.3	21.3	25.0
23 Transportation equipment, except motor vehicles.....	2,371	100.0	5.7	22.0	25.3	17.5	29.5
24 Instruments, photographic equipment, watches, and clocks.....	754	100.0	31.0	25.5	18.0	20.0	5.5

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included. Because of rounding, detail may not add to total.

TABLE B. SHIPPER GROUP SUMMARY-WEIGHT OF SHIPMENTS-Con.
(Ton-Miles of Shipments)

Shipper Group	Ton-miles (millions)	Percent distribution by weight of shipment					
		Total	Under 1,000 pounds	1,000 to 9,999 pounds	10,000 to 29,999 pounds	30,000 to 59,999 pounds	60,000 pounds and over
United States, total.....	¹ 260,807	100.0	3.2	6.7	10.5	24.6	55.0
1 Meat and dairy products.....	12,161	100.0	2.2	7.3	25.9	45.2	19.4
2 Canned and frozen foods and other food products, except meat and dairy products.....	29,173	100.0	1.2	5.3	8.2	29.2	56.1
3 Candy, beverages, and tobacco products.	10,177	100.0	4.0	5.3	8.0	33.8	48.9
4 Textile mill and leather products.....	4,511	100.0	19.7	33.3	17.4	20.5	9.1
5 Apparel and related products.....	1,631	100.0	62.6	23.5	9.3	4.1	.5
6 Paper and allied products.....	16,831	100.0	2.3	5.7	10.9	29.7	51.4
7 Basic chemicals, plastics materials, synthetic rubber and fibers.....	17,481	100.0	.5	2.4	6.0	18.2	72.9
8 Drugs, paints, and other chemical products.....	16,838	100.0	3.5	6.2	8.2	22.7	59.4
9 Petroleum and coal products.....	34,791	100.0	.1	.5	1.6	14.6	83.2
10 Rubber and plastics products.....	3,703	100.0	10.1	20.6	23.7	32.4	13.2
11 Lumber and wood products, except furniture.....	34,251	100.0	.3	.7	2.3	19.5	77.2
12 Furniture, fixtures, and miscellaneous manufactured products.....	3,697	100.0	24.2	22.3	29.0	14.7	9.8
13 Stone, clay, and glass products.....	17,866	100.0	1.0	3.1	12.2	31.2	52.5
14 Primary iron and steel products.....	19,399	100.0	.4	2.4	5.7	28.8	62.7
15 Primary nonferrous metal products.....	5,527	100.0	2.4	7.5	10.3	25.0	54.8
16 Fabricated metal products, except metal cans and miscellaneous fabricated metal products.....	3,782	100.0	11.8	22.3	22.8	33.3	9.8
17 Metal cans and miscellaneous fabricated metal products.....	3,856	100.0	11.1	18.5	26.1	19.4	24.9
18 Industrial machinery, except electrical.....	2,107	100.0	15.4	29.0	17.4	22.4	15.8
19 Machinery, except electrical and industrial.....	6,720	100.0	5.9	12.7	21.6	27.5	32.3
20 Communication products and parts.....	1,126	100.0	16.9	29.0	36.4	10.3	7.4
21 Electrical products and supplies.....	4,510	100.0	10.8	15.4	48.8	15.1	9.9
22 Motor vehicles and equipment.....	9,072	100.0	1.4	27.7	22.1	23.9	24.9
23 Transportation equipment, except motor vehicles.....	1,004	100.0	8.5	25.3	25.9	20.4	19.9
24 Instruments, photographic equipment, watches, and clocks.....	591	100.0	27.1	20.0	12.6	31.0	9.3

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included. Because of rounding, detail may not add to total.

TABLE C. SHIPPER GROUP SUMMARY—GEOGRAPHIC DIVISION OF ORIGIN
(Tonsof Shipments)

Shipper Group	Tons (thousands)	Percent distribution by geographic division of origin									
		All divisions	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Moun- tain	Pa- cific ¹
United States, total.	² 1,334,838	100.0	1.9	14.8	21.7	7.0	11.6	6.0	23.1	2.0	11.9
1 Meat and dairy products..	39,787	100.0	2.7	5.0	18.9	43.4	10.2	5.7	5.7	2.2	6.2
2 Canned and frozen foods and other food products, except meat and dairy products.....	125,726	100.0	1.9	10.0	22.7	15.8	12.7	10.2	15.2	1.5	10.0
3 Candy, beverages, and tobacco products.....	44,249	100.0	5.2	19.2	24.1	11.1	19.9	3.8	4.6	1.5	10.6
4 Textile mill and leather products.....	12,609	100.0	12.9	11.6	6.9	.3	53.3	12.6	2.2	-	.2
5 Apparel and related products.....	3,906	100.0	8.0	29.2	16.4	1.9	30.6	6.9	6.1	-	.9
6 Paper and allied products.....	65,551	100.0	6.7	18.0	23.1	5.4	18.9	10.5	5.8	-	11.6
7 Basic chemicals, plastics materials, synthetic rubber and fibers.....	79,916	100.0	2.2	13.4	27.9	3.4	12.1	10.7	26.3	.9	3.1
8 Drugs, paints, and other chemical products.....	60,318	100.0	.9	9.8	25.3	4.5	36.0	5.3	7.6	.8	9.8
9 Petroleum and coal products.....	398,066	100.0	.5	13.6	6.6	2.7	4.3	1.7	56.8	1.8	12.0
10 Rubber and plastics products.....	8,884	100.0	11.3	19.8	40.9	6.2	3.9	7.0	5.2	1.3	4.4
11 Lumber and wood products, except furniture.....	70,380	100.0	2.5	.9	5.5	1.5	20.4	12.9	6.6	7.3	42.4
12 Furniture, fixtures, and miscellaneous manu- factured products.....	9,494	100.0	5.6	28.6	25.6	2.4	23.4	6.7	4.9	-	2.8
13 Stone, clay, and glass products.....	175,597	100.0	.3	13.5	23.9	10.4	14.7	7.1	8.9	1.8	19.4
14 Primary iron and steel products.....	120,521	100.0	.9	33.8	44.1	1.2	6.4	7.2	1.1	2.3	3.0
15 Primary nonferrous metal products.....	18,862	100.0	7.1	22.5	21.9	5.9	5.4	4.5	14.0	13.3	5.4
16 Fabricated metal prod- ucts, except metal cans and miscellaneous fab- ricated metal products..	16,298	100.0	2.2	15.0	34.3	5.4	14.5	5.8	7.4	3.7	11.7
17 Metal cans and miscella- neous fabricated metal products.....	12,787	100.0	3.7	20.0	45.0	7.4	7.1	2.4	3.2	.5	10.7
18 Industrial machinery, except electrical.....	5,876	100.0	9.9	22.9	49.9	2.3	7.3	2.9	1.9	.1	2.8
19 Machinery, except elec- trical and industrial...	14,130	100.0	1.1	11.9	47.5	29.3	.6	2.8	3.2	.8	2.8
20 Communication products and parts.....	2,391	100.0	5.5	31.6	49.4	5.5	1.9	1.0	1.8	-	3.3
21 Electrical products and supplies.....	10,106	100.0	4.3	23.0	51.4	5.2	1.9	9.0	2.3	.1	2.8
22 Motor vehicles and equipment.....	34,717	100.0	.3	10.5	72.2	7.3	3.6	1.8	.8	-	3.5
23 Transportation equipment, except motor vehicles...	3,242	100.0	3.1	13.1	40.9	8.3	15.2	5.8	6.1	.2	7.3
24 Instruments, photographic equipment, watches, and clocks.....	1,423	100.0	7.5	50.2	23.7	3.7	9.0	.2	1.9	.6	3.2

¹No data were obtained on shipments originating in Alaska and Hawaii.

²Because of rounding, detail may not add to total.

**TABLE C. SHIPPER GROUP SUMMARY—GEOGRAPHIC DIVISION OF
ORIGIN—Continued
(Ton-Miles of Shipments)**

Shipper Group	Ton-miles (millions)	Percent distribution by geographic division of origin									
		All divisions	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Moun- tain	Pa- cific ¹
United States, total.	² 619,908	100.0	1.5	7.2	14.2	5.6	8.0	4.4	44.2	2.0	12.9
1 Meat and dairy products..	15,910	100.0	1.0	1.8	11.1	55.5	7.0	4.8	8.0	5.1	5.7
2 Canned and frozen foods and other food products, except meat and dairy products.....	49,258	100.0	1.2	7.3	21.9	16.4	10.4	6.5	12.5	2.3	21.5
3 Candy, beverages, and tobacco products.....	13,615	100.0	3.2	14.5	27.1	11.4	16.6	4.8	4.7	2.3	15.4
4 Textile mill and leather products.....	6,470	100.0	12.3	10.3	8.3	.2	54.9	12.2	1.5	.1	.2
5 Apparel and related products.....	2,183	100.0	6.1	29.5	12.6	1.1	34.6	7.3	7.0	-	1.8
6 Paper and allied products.....	26,849	100.0	7.1	10.0	17.6	6.0	22.2	13.7	9.4	-	14.0
7 Basic chemicals, plastics materials, synthetic rubber and fibers.....	36,397	100.0	1.7	9.2	17.7	3.5	8.5	11.8	42.2	1.1	4.3
8 Drugs, paints, and other chemical products.....	23,145	100.0	1.7	11.2	20.7	4.9	45.5	5.2	5.1	.5	5.2
9 Petroleum and coal products.....	274,436	100.0	.1	1.6	1.4	.6	1.2	.5	86.8	.6	7.2
10 Rubber and plastics products.....	4,602	100.0	11.6	17.5	37.8	5.7	4.2	8.1	6.5	2.1	6.5
11 Lumber and wood products, except furniture.....	41,500	100.0	1.5	.3	2.0	.8	4.8	6.5	2.9	7.4	73.8
12 Furniture, fixtures, and miscellaneous manu- factured products.....	4,467	100.0	6.3	28.4	27.2	1.2	22.4	6.7	4.7	.1	3.0
13 Stone, clay, and glass products.....	27,879	100.0	.7	12.4	27.5	9.2	17.6	6.9	10.5	3.2	12.0
14 Primary iron and steel products.....	34,033	100.0	1.0	30.0	35.8	1.5	10.8	9.3	1.4	4.3	5.9
15 Primary nonferrous metal products.....	11,033	100.0	6.6	12.7	14.6	7.2	4.0	4.3	20.3	20.6	9.7
16 Fabricated metal prod- ucts, except metal cans and miscellaneous fab- ricated metal products..	6,133	100.0	3.1	12.1	43.3	7.0	10.5	6.9	8.4	2.0	6.7
17 Metal cans and miscella- neous fabricated metal products.....	4,655	100.0	5.4	16.0	40.7	7.7	5.6	4.0	3.0	.6	17.0
18 Industrial machinery, except electrical.....	2,803	100.0	10.6	20.2	49.8	3.1	5.7	2.4	3.0	.3	4.9
19 Machinery, except elec- trical and industrial...	8,678	100.0	1.1	12.6	40.2	36.4	.3	2.1	2.0	1.3	4.0
20 Communication products and parts.....	1,537	100.0	7.1	28.6	46.8	5.6	2.3	1.0	2.4	.1	6.1
21 Electrical products and supplies.....	5,989	100.0	4.2	24.3	45.4	6.3	2.2	11.5	1.8	.1	4.2
22 Motor vehicles and equip- ment.....	15,877	100.0	.4	6.9	77.7	7.7	1.9	2.0	.6	-	2.8
23 Transportation equipment, except motor vehicles...	1,445	100.0	5.7	15.7	36.2	10.2	6.6	5.3	7.8	.6	11.9
24 Instruments, photographic equipment, watches, and clocks.....	1,015	100.0	7.7	57.1	16.2	4.0	8.6	.2	1.4	.8	4.0

¹No data were obtained on shipments originating in Alaska and Hawaii.

²Because of rounding, detail may not add to total.

**TABLE D. SHIPPER GROUP SUMMARY—GEOGRAPHIC DIVISION
OF DESTINATION**
(Tons of Shipments)

Shipper group	Tons (thousands)	Percent distribution by geographic division of destination									
		All divi- sions	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Moun- tain	Pa- cific
United States, total	1,334,838	100.0	6.2	20.2	20.3	7.1	17.8	5.9	9.0	2.2	11.3
1 Meat and dairy products.	39,787	100.0	5.6	16.9	24.8	18.2	14.0	4.3	6.4	1.8	8.0
2 Canned and frozen foods and other food prod- ucts, except meat and dairy products.....	125,726	100.0	4.1	14.0	19.5	11.2	16.5	9.1	16.9	1.5	7.2
3 Candy, beverages, and tobacco products.....	44,249	100.0	7.3	21.2	19.9	9.0	17.7	4.0	6.7	2.4	11.8
4 Textile mill and leather products.....	12,609	100.0	10.0	25.2	13.2	3.9	29.1	7.1	4.8	.4	6.3
5 Apparel and related products.....	3,906	100.0	6.7	23.8	25.1	8.3	15.9	5.3	5.5	2.5	6.9
6 Paper and allied products.....	65,551	100.0	5.6	23.0	28.5	6.2	13.7	5.4	5.3	1.1	11.2
7 Basic chemicals, plastics materials, synthetic rubber and fibers.....	79,916	100.0	5.0	19.6	22.9	5.4	19.8	7.9	12.5	.9	6.0
8 Drugs, paints, and other chemical products.....	60,318	100.0	2.1	10.5	22.1	9.4	25.1	5.3	12.7	2.1	10.7
9 Petroleum and coal prod- ucts.....	398,066	100.0	11.0	29.9	7.2	4.2	22.8	4.0	8.0	1.8	11.1
10 Rubber and plastics products.....	8,884	100.0	7.3	19.8	30.1	10.1	10.0	5.0	6.9	2.4	8.4
11 Lumber and wood prod- ucts, except furniture.	70,380	100.0	2.7	6.4	13.8	6.5	23.8	9.2	8.6	5.7	23.3
12 Furniture, fixtures, and miscellaneous manufac- tured products.....	9,494	100.0	5.6	23.0	20.1	8.3	19.9	5.9	8.0	2.2	7.0
13 Stone, clay, and glass products.....	175,597	100.0	2.3	12.9	21.7	8.3	16.2	8.2	8.9	2.8	18.7
14 Primary iron and steel products.....	120,521	100.0	4.6	20.4	47.6	4.9	5.3	4.7	5.9	1.7	4.9
15 Primary nonferrous metal products.....	18,862	100.0	6.6	20.1	31.5	7.3	9.8	4.2	9.5	3.3	7.7
16 Fabricated metal prod- ucts, except metal cans and miscellaneous fabricated metal products.....	16,298	100.0	3.6	15.5	22.5	5.6	16.4	6.6	8.0	6.7	15.1
17 Metal cans and miscel- laneous fabricated metal products.....	12,787	100.0	5.0	19.9	37.2	9.1	8.4	3.6	5.8	1.6	9.4
18 Industrial machinery, except electrical.....	5,876	100.0	5.1	24.9	33.6	4.4	13.5	4.0	6.6	1.6	6.3
19 Machinery, except elec- trical and industrial..	14,130	100.0	2.5	15.2	27.3	12.5	11.1	7.1	8.9	4.5	10.9
20 Communication products and parts.....	2,391	100.0	6.0	26.2	23.9	11.1	9.4	3.8	6.8	2.1	10.7
21 Electrical products and supplies.....	10,106	100.0	5.5	18.9	29.6	7.9	11.7	5.7	7.4	2.6	10.7
22 Motor vehicles and equipment.....	34,717	100.0	2.3	15.7	37.4	10.7	12.2	3.3	6.4	1.8	10.2
23 Transportation equip- ment, except motor vehicles.....	3,242	100.0	2.3	18.5	28.1	8.8	15.0	8.7	8.3	2.5	7.8
24 Instruments, photo- graphic equipment, watches, and clocks....	1,423	100.0	4.9	23.0	24.3	5.3	15.3	3.7	6.3	1.7	15.5

¹Because of rounding, detail may not add to total.

**TABLE D. SHIPPER GROUP SUMMARY—GEOGRAPHIC DIVISION OF
DESTINATION—Continued
(Ton-Miles of Shipments)**

Shipper Group	Ton-miles (millions)	Percent distribution by geographic division of destination									
		All divisions	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Moun- tain	Pa- cific
United States, total.	¹ 619,908	100.0	12.2	24.7	12.4	5.6	20.7	4.0	7.2	2.3	10.9
1 Meat and dairy products..	15,910	100.0	11.3	27.3	15.7	5.1	17.1	3.2	6.1	3.0	11.2
2 Canned and frozen foods and other food products, except meat and dairy products.....	49,258	100.0	5.1	18.0	18.8	9.7	15.5	6.9	15.9	2.3	7.8
3 Candy, beverages, and tobacco products.....	13,615	100.0	5.3	18.2	12.8	7.2	14.6	3.4	10.5	5.3	22.7
4 Textile mill and leather products.....	6,470	100.0	7.8	21.7	12.6	4.9	14.4	5.0	6.9	1.4	25.3
5 Apparel and related prod- ucts.....	2,183	100.0	4.6	13.2	19.9	8.3	10.1	3.8	8.6	6.5	25.0
6 Paper and allied prod- ucts.....	26,849	100.0	6.2	19.1	26.7	7.7	11.5	5.5	7.1	2.4	13.8
7 Basic chemicals, plastics materials, synthetic rubber and fibers.....	36,397	100.0	8.0	22.6	17.3	5.8	15.4	5.8	8.3	1.6	15.2
8 Drugs, paints, and other chemical products.....	23,145	100.0	2.3	7.3	19.0	17.0	17.1	4.8	15.9	3.8	12.8
9 Petroleum and coal products.....	274,436	100.0	21.2	36.1	3.0	1.3	29.3	2.0	2.1	.6	4.4
10 Rubber and plastics products.....	4,602	100.0	3.9	11.7	18.5	11.4	9.8	5.2	10.1	5.0	24.4
11 Lumber and wood products, except furniture.....	41,500	100.0	5.2	12.4	22.8	11.4	15.8	6.2	10.0	3.5	12.7
12 Furniture, fixtures, and miscellaneous manu- factured products.....	4,467	100.0	4.4	12.8	14.1	9.6	13.3	4.5	11.9	5.6	23.8
13 Stone, clay, and glass products.....	27,879	100.0	3.4	13.0	19.5	9.0	17.9	7.7	9.7	5.6	14.2
14 Primary iron and steel products.....	34,033	100.0	4.1	11.6	28.6	7.5	6.7	5.9	16.0	4.3	15.3
15 Primary nonferrous metal products.....	11,033	100.0	4.1	16.6	29.7	8.8	11.0	4.1	7.5	2.7	15.5
16 Fabricated metal prod- ucts, except metal cans and miscellaneous fab- ricated metal products..	6,133	100.0	3.8	11.3	12.0	6.5	12.4	6.5	9.3	9.8	28.4
17 Metal cans and miscella- neous fabricated metal products.....	4,655	100.0	4.9	14.0	24.1	12.8	10.6	5.1	10.5	3.0	15.0
18 Industrial machinery, except electrical.....	2,803	100.0	3.9	16.8	18.5	4.9	15.1	3.5	12.9	4.0	20.4
19 Machinery, except elec- trical and industrial...	8,678	100.0	3.0	12.7	11.6	8.4	12.3	5.6	10.5	8.8	27.1
20 Communication products and parts.....	1,537	100.0	5.1	16.8	12.2	9.1	9.5	3.1	9.6	4.8	29.8
21 Electrical products and supplies.....	5,989	100.0	3.8	12.1	12.6	7.1	11.5	4.3	11.0	5.9	31.7
22 Motor vehicles and equipment.....	15,877	100.0	2.1	11.5	13.2	11.0	12.4	2.7	10.7	3.9	32.5
23 Transportation equip- ment, except motor vehicles.....	1,445	100.0	2.9	11.3	15.5	11.1	13.0	6.6	16.1	4.9	18.6
24 Instruments, photographic equipment, watches, and clocks.....	1,015	100.0	2.7	9.7	13.2	4.9	12.1	2.8	8.3	2.8	43.5

¹Because of rounding, detail may not add to total.

TABLE E. SHIPPER GROUP SUMMARY-DISTANCE OF SHIPMENTS
(Tons of Shipments)

Shipper Group	Tons (thousands)	Percent distribution by distance of shipment								
		All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
United States, total....	1,334,838	100.0	30.0	15.6	11.1	7.2	4.4	13.9	12.7	5.1
1 Meat and dairy products.....	39,787	100.0	34.6	14.3	9.0	7.1	4.6	17.7	10.4	2.3
2 Canned and frozen foods and other food products, except meat and dairy products....	125,726	100.0	22.4	20.5	14.2	11.0	5.8	18.9	3.4	3.8
3 Candy, beverages, and tobacco products.....	44,249	100.0	39.1	19.3	12.4	7.5	4.0	11.4	2.7	3.6
4 Textile mill and leather products.....	12,609	100.0	17.1	12.6	7.8	11.5	10.6	31.4	2.3	6.7
5 Apparel and related prod- ucts.....	3,906	100.0	17.0	12.9	8.8	11.5	8.5	26.9	6.1	8.3
6 Paper and allied products...	65,551	100.0	22.3	15.7	13.5	8.7	8.1	25.1	4.2	2.4
7 Basic chemicals, plastics materials, synthetic rubber and fibers.....	79,916	100.0	20.7	14.6	18.0	10.0	7.1	16.9	8.1	4.6
8 Drugs, paints, and other chemical products.....	60,318	100.0	31.5	16.8	10.7	7.9	4.1	21.2	5.8	2.0
9 Petroleum and coal products.	398,066	100.0	26.8	10.2	5.7	4.5	1.6	11.1	33.2	6.9
10 Rubber and plastics prod- ucts.....	8,884	100.0	18.7	13.3	11.6	9.7	8.4	25.5	6.1	6.7
11 Lumber and wood products, except furniture.....	70,380	100.0	34.0	13.6	7.8	5.2	3.3	13.9	5.3	16.9
12 Furniture, fixtures, and miscellaneous manufactured products.....	9,494	100.0	22.3	15.5	12.2	9.4	7.4	22.2	4.7	6.3
13 Stone, clay, and glass products.....	175,597	100.0	51.3	22.1	13.2	5.9	3.0	3.8	.4	.3
14 Primary iron and steel products.....	120,521	100.0	31.3	20.8	18.0	9.8	5.6	10.5	2.0	2.0
15 Primary nonferrous metal products.....	18,862	100.0	19.3	15.5	9.9	7.4	7.4	19.9	10.3	10.3
16 Fabricated metal products, except metal cans and mis- cellaneous fabricated metal products.....	16,298	100.0	30.1	18.1	12.8	10.1	5.0	15.5	2.9	5.5
17 Metal cans and miscellaneous fabricated metal products..	12,787	100.0	31.3	14.7	15.9	7.2	6.7	17.3	2.8	4.1
18 Industrial machinery, except electrical.....	5,876	100.0	20.5	14.9	13.4	10.8	6.1	21.6	6.6	6.1
19 Machinery, except electrical and industrial.....	14,130	100.0	12.7	11.4	10.7	10.5	7.9	28.1	8.3	10.4
20 Communication products and parts.....	2,391	100.0	12.2	14.9	9.9	5.1	5.9	33.6	7.1	11.3
21 Electrical products and supplies.....	10,106	100.0	12.8	14.1	12.3	9.8	8.9	25.9	5.2	11.0
22 Motor vehicles and equip- ment.....	34,717	100.0	20.8	15.2	14.1	7.8	12.9	18.7	3.0	7.5
23 Transportation equipment, except motor vehicles.....	3,242	100.0	25.1	13.4	12.6	9.2	8.5	20.1	5.8	5.3
24 Instruments, photographic equipment, watches, and clocks.....	1,423	100.0	12.9	10.0	13.4	7.3	8.3	26.3	6.6	15.2

¹Because of rounding, detail may not add to total.

**TABLE F. SHIPPER GROUP SUMMARY—AVERAGE DISTANCE BY
MEANS OF TRANSPORT**

(Average Length of Haul in Miles)

Shipper Group	All means of transport	Rail	Motor carrier	Private truck	Shipper Group	All means of transport	Rail	Motor carrier	Private truck
All Groups, total.....	464	518	255	132	Shipper Group 12.....	470	872	425	240
Shipper Group 1.....	400	685	487	152	Shipper Group 13.....	159	240	139	84
Shipper Group 2.....	392	491	305	149	Shipper Group 14.....	282	330	188	159
Shipper Group 3.....	308	165	284	105	Shipper Group 15.....	585	834	362	82
Shipper Group 4.....	513	962	462	310	Shipper Group 16.....	376	680	322	210
Shipper Group 5.....	559	598	560	335	Shipper Group 17.....	364	559	308	168
Shipper Group 6.....	410	582	256	136	Shipper Group 18.....	477	576	247	234
Shipper Group 7.....	455	520	268	177	Shipper Group 19.....	614	854	486	285
Shipper Group 8.....	384	560	268	142	Shipper Group 20.....	643	813	566	282
Shipper Group 9.....	689	369	114	98	Shipper Group 21.....	593	845	473	330
Shipper Group 10.....	518	753	428	351	Shipper Group 22.....	457	624	284	229
Shipper Group 11.....	590	920	274	137	Shipper Group 23.....	446	415	504	330
					Shipper Group 24.....	713	1,515	590	285

NOTE: Estimates are not shown for air, water, and other because of the difference and uneven use of these transports by shipper groups. Average length of haul is based on straight-line miles from plant to customer or primary redistribution point, weighted by tonnage shipped (i.e., ton-miles divided by tons).

TABLE G. SHIPPER GROUP SUMMARY—GEOGRAPHIC DIVISION OF ORIGIN AND OF DESTINATION
(Tons and Ton-Miles of Shipments)

Geographic division of destination	Tons and ton-miles	Percent distribution by geographic division of origin									
		All divisions	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
TONS OF SHIPMENTS	(Thousands of tons)										
United States, total..... ¹	1,334,838	100.0	1.9	14.8	21.7	7.0	11.6	6.0	23.1	2.0	11.9
New England.....	82,194	100.0	13.3	22.1	5.7	2.1	6.5	1.3	47.4	.3	1.3
Middle Atlantic.....	270,547	100.0	2.6	42.5	11.5	2.3	10.9	2.1	25.3	.3	2.5
East North Central.....	271,747	100.0	1.1	10.5	64.1	7.2	4.7	4.1	5.1	.8	2.4
West North Central.....	94,246	100.0	.7	2.8	25.5	47.2	5.4	3.4	7.6	3.1	4.3
South Atlantic.....	237,568	100.0	.8	10.3	9.3	1.6	37.0	7.4	32.1	.2	1.3
East South Central.....	78,304	100.0	.5	3.4	16.9	8.2	9.1	40.1	19.9	.4	1.5
West South Central.....	119,694	100.0	.4	2.1	8.5	6.4	4.1	6.5	67.5	1.5	3.0
Mountain.....	29,664	100.0	.3	2.3	9.3	5.5	.9	1.9	10.1	45.3	24.4
Pacific.....	150,873	100.0	.4	2.0	5.1	1.9	1.5	.9	2.4	2.8	83.0
TON-MILES	(Millions of ton-miles)										
United States, total..... ¹	1,619,908	100.0	1.5	7.2	14.2	5.6	8.0	4.4	44.2	2.0	12.9
New England.....	75,870	100.0	1.3	4.9	4.4	2.6	3.4	1.3	77.8	.6	3.7
Middle Atlantic.....	152,844	100.0	1.1	7.0	8.5	3.8	5.3	2.5	60.3	.9	10.6
East North Central.....	76,806	100.0	2.8	12.5	29.0	7.9	8.9	5.7	14.1	3.5	15.6
West North Central.....	34,773	100.0	2.2	6.8	23.5	15.8	14.3	4.7	11.0	5.0	16.7
South Atlantic.....	128,366	100.0	1.0	4.2	7.9	2.6	11.2	4.7	62.3	.7	5.4
East South Central.....	24,660	100.0	1.5	6.6	18.4	9.2	12.0	15.4	25.9	1.8	9.2
West South Central.....	44,560	100.0	1.5	6.8	19.8	9.0	10.1	6.6	31.8	1.9	12.5
Mountain.....	14,516	100.0	1.3	7.7	22.5	9.2	3.0	4.7	12.1	14.6	24.9
Pacific.....	67,512	100.0	2.0	10.3	21.5	6.2	7.2	4.0	8.8	3.1	36.9

NOTE: Shipments to Alaska and Hawaii from the 48 conterminous States and the District of Columbia are included; no data were obtained on shipments originating in Alaska and Hawaii.

¹Because of rounding, detail may not add to total.

**TABLE H. SHIPPER GROUP SUMMARY—GEOGRAPHIC DIVISION OF
DESTINATION AND OF ORIGIN
(Tons and Ton-Miles of Shipments)**

Geographic division of origin	Tons and ton-miles	Percent distribution by geographic division of destination									
		All divisions	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
TONS OF SHIPMENTS	(Thousands of tons)										
United States, total.....	1,334,838	100.0	6.2	20.2	20.3	7.1	17.8	5.9	9.0	2.2	11.3
New England.....	24,908	100.0	43.7	28.4	11.7	2.7	7.4	1.7	1.8	.4	2.2
Middle Atlantic.....	197,931	100.0	9.2	58.2	14.6	1.3	12.4	1.3	1.2	.3	1.5
East North Central.....	290,255	100.0	1.6	10.7	60.2	8.3	7.6	4.5	3.5	1.0	2.6
West North Central.....	93,990	100.0	1.9	6.5	20.7	47.3	4.0	6.8	8.1	1.7	3.0
South Atlantic.....	155,087	100.0	3.4	19.1	8.2	3.3	56.6	4.6	3.2	.2	1.4
East South Central.....	79,825	100.0	1.4	7.0	13.8	4.0	22.1	39.4	9.8	.7	1.8
West South Central.....	307,958	100.0	12.7	22.2	4.5	2.3	24.8	5.1	26.2	1.0	1.2
Mountain.....	26,233	100.0	.9	2.8	8.4	11.0	1.8	1.1	6.7	51.2	16.1
Pacific.....	158,649	100.0	.7	4.2	4.0	2.6	1.9	.7	2.3	4.6	79.0
TON-MILES	(Millions of ton-miles)										
United States, total.....	1619,908	100.0	12.2	24.7	12.4	5.6	20.7	4.0	7.2	2.3	10.9
New England.....	9,420	100.0	10.2	17.6	23.2	8.1	13.1	4.0	7.3	1.9	14.6
Middle Atlantic.....	44,485	100.0	8.4	23.8	21.6	5.3	12.2	3.7	6.8	2.5	15.7
East North Central.....	88,078	100.0	3.7	14.8	25.4	9.3	11.6	5.1	10.0	3.7	16.4
West North Central.....	34,509	100.0	5.8	16.9	17.6	15.9	9.7	6.6	11.6	3.8	12.1
South Atlantic.....	49,604	100.0	5.2	16.2	13.8	10.0	29.1	5.9	9.1	.9	9.8
East South Central.....	27,046	100.0	3.7	14.4	16.2	6.0	22.3	14.0	10.8	2.5	10.1
West South Central.....	273,952	100.0	21.5	33.7	3.9	1.4	29.2	2.3	5.2	.6	2.2
Mountain.....	12,678	100.0	3.5	10.9	21.3	13.8	7.0	3.4	6.8	16.8	16.5
Pacific.....	80,135	100.0	3.5	20.3	14.9	7.3	8.7	2.8	6.9	4.5	31.1

NOTE: Shipments to Alaska and Hawaii from the 48 conterminous States and the District of Columbia are included; no data were obtained on shipments originating in Alaska and Hawaii.

¹Because of rounding, detail may not add to total.

Shipper Group 1

Meat and Dairy Products

Data for Shipper Group 1 are based on a probability sample of 28,814 shipments reported by 258 establishments. The shipper group has been divided into three subgroups which can be closely related to industries classified in the Standard Industrial Classification (SIC). (This is the system of industrial classification developed over a period of years by experts on classification in government and private industry under the guidance of the Bureau of the Budget.) The subgroup and related SIC industries are as follows:

Shipper Subgroup 011.—Meat; fresh, chilled or frozen

SIC 2011.—Meat packing plants

Shipper Subgroup 012.—Meat products

SIC 2013.—Sausages and other prepared meat products

SIC 2015.—Poultry and small game dressing and packing, wholesale

SIC 2094.—Grease and tallow

Shipper Subgroup 012.—Meat products

SIC 2013.—Sausages and other prepared meat products

SIC 2015.—Poultry and small game dressing and packing, wholesale

SIC 2094.—Animal and marine fats and oils, including grease and tallow

Commodities primary to these industries are classified in the following Transportation Commodity Classifications (TCC):¹

TCC 201.—Meat, poultry and small game; fresh, chilled or frozen

TCC 202.—Dairy products

TCC 2094.—Marine fats and oils

Data for these commodities are included in the Commodity Series chapter: Commodity Group 20, Food and Kindred Products.

Because the data are based on a probability sample, they are subject to sampling variability. The term "sampling variability" refers to the differences that would be expected between results of a sample survey and results that would have been obtained from a complete enumeration of plants and shipping documents. Estimates of sampling variability for Shipper Group 1 on total tons and on key items, are shown below:

Item	Estimated tons based on sample (thousands)	Sampling variability (percent)
Total tons.....	39,787	5.5
SHIPPER SUBGROUPS		
011 Meat; fresh, chilled or frozen	19,980	6.6
012 Meat products.....	7,593	9.9
013 Dairy products.....	12,214	17.4
MEANS OF TRANSPORT		
Rail.....	10,781	10.1
Motor carrier.....	11,838	12.9
Private truck.....	16,963	14.2
Other.....	205	43.9
ORIGIN OF SHIPMENT (Geographic Division)		
New England.....	1,069	49.0
Middle Atlantic.....	1,986	22.1
East North Central.....	7,530	15.8
West North Central.....	17,228	19.3
South Atlantic.....	4,053	33.1
East South Central.....	2,265	25.3
West South Central.....	2,285	16.4
Mountain.....	893	36.7
Pacific.....	2,478	38.5

¹ See *Commodity Classification for Transportation Statistics, 1963, Executive Office of the President, Bureau of the Budget.*

TABLE 1. Tons and Ton-Miles of Shipments—Means of Transport and Shipper Subgroup: 1963

Shipper subgroup	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
1 Meat and dairy products.....	39,787	100.0	27.1	29.8	42.6	-	0.1	0.3	0.1
011 Meat; fresh, chilled, or frozen	19,980	100.0	36.5	31.3	31.3	-	.1	.6	.2
012 Meat products.....	7,593	100.0	17.7	33.4	48.7	-	.1	-	.1
013 Dairy products.....	12,214	100.0	17.7	24.9	57.4	-	-	-	-
TON-MILES	(Millions of ton-miles)								
1 Meat and dairy products.....	15,910	100.0	46.5	36.2	16.2	-	.1	.9	.1
011 Meat; fresh, chilled, or frozen	10,091	100.0	53.4	35.8	9.2	-	.1	1.4	.1
012 Meat products.....	2,788	100.0	26.8	39.8	33.1	-	.2	-	.1
013 Dairy products.....	3,031	100.0	41.5	34.3	24.1	-	-	-	.1

TABLE 2. Tons of Shipments—Means of Transport and Distance Shipped: 1963

Distance shipped ¹	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
All distances.....	39,787	100.0	27.1	29.8	42.6	-	0.1	0.3	0.1
Under 50 miles.....	6,492	100.0	6.6	13.3	79.5	-	.1	.1	.4
50 to 99 miles.....	7,301	100.0	9.1	12.0	78.9	-	-	-	-
100 to 199 miles.....	5,677	100.0	19.1	30.2	50.7	-	-	-	-
200 to 299 miles.....	3,579	100.0	22.8	47.3	29.9	-	-	-	-
300 to 399 miles.....	2,831	100.0	27.9	46.8	25.3	-	-	-	-
400 to 499 miles.....	1,840	100.0	35.5	47.4	16.9	-	-	.1	.1
500 to 599 miles.....	1,618	100.0	44.7	42.3	12.9	-	-	-	.1
600 to 799 miles.....	2,166	100.0	34.8	50.8	13.4	-	.9	-	.1
800 to 999 miles.....	3,260	100.0	58.7	37.4	3.7	-	-	-	.2
1,000 to 1,199 miles.....	2,579	100.0	60.8	25.9	8.4	-	-	4.9	-
1,200 miles and over.....	2,444	100.0	56.8	33.6	9.2	0.1	.2	-	.1

NOTE: Percent distributions by ton-miles are about the same as those for tons because data are grouped in mileage blocks.

¹Distances of shipments to foreign destinations are calculated only to the American port of exit.

TABLE 3. Tons and Ton-Miles of Shipments—Means of Transport and Weight: 1963

Weight	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
Total.....	¹ 28,599	100.0	31.2	27.5	40.6	-	0.1	0.5	0.1
Shipments—									
Under 1,000 pounds.....	2,502	100.0	.6	13.5	85.8	-	-	.1	-
Under 50 pounds.....	89	100.0	.1	2.8	96.9	-	.1	.1	-
50 to 99 pounds.....	179	100.0	.2	5.9	93.4	-	-	.5	-
100 to 199 pounds.....	327	100.0	.7	12.7	86.4	-	-	.2	-
200 to 499 pounds.....	771	100.0	.5	16.0	83.5	-	-	-	-
500 to 999 pounds.....	1,136	100.0	.8	14.1	85.0	-	-	.1	-
1,000 to 9,999 pounds.....	4,294	100.0	5.8	24.1	69.5	-	-	-	.6
1,000 to 1,999 pounds.....	988	100.0	2.1	23.8	74.0	-	-	-	.1
2,000 to 4,999 pounds.....	1,554	100.0	3.3	23.6	73.0	-	-	.1	-
5,000 to 9,999 pounds.....	1,752	100.0	10.0	24.7	63.9	-	-	-	1.4
10,000 to 29,999 pounds.....	6,217	100.0	19.5	41.7	38.4	-	.3	-	.1
10,000 to 19,999 pounds.....	2,288	100.0	13.7	35.5	49.9	-	.9	-	-
20,000 to 29,999 pounds.....	3,929	100.0	23.0	45.2	31.7	-	-	-	.1
30,000 pounds and over.....	15,586	100.0	47.8	25.0	26.4	-	-	.8	-
TON-MILES	(Millions of ton-miles)								
Total.....	¹ 12,161	100.0	49.2	34.4	15.0	-	.1	1.2	.1
Shipments—									
Under 1,000 pounds.....	269	100.0	4.1	31.8	63.9	-	-	.2	-
Under 50 pounds.....	7	100.0	.9	8.4	89.4	0.1	.1	1.1	-
50 to 99 pounds.....	15	100.0	.9	13.4	85.4	-	-	.3	-
100 to 199 pounds.....	33	100.0	3.7	25.6	70.5	-	-	.2	-
200 to 499 pounds.....	82	100.0	4.0	34.9	61.1	-	-	-	-
500 to 999 pounds.....	132	100.0	4.8	34.7	60.2	-	-	.3	-
1,000 to 9,999 pounds.....	883	100.0	12.2	47.5	40.0	-	-	.2	.1
1,000 to 1,999 pounds.....	164	100.0	12.2	41.9	45.8	-	-	-	.1
2,000 to 4,999 pounds.....	321	100.0	13.0	44.5	41.9	-	-	.6	-
5,000 to 9,999 pounds.....	398	100.0	11.7	52.1	36.1	-	-	-	.1
10,000 to 29,999 pounds.....	3,153	100.0	33.3	45.7	20.3	.1	.5	-	.1
10,000 to 19,999 pounds.....	775	100.0	25.2	42.3	30.6	-	1.9	-	-
20,000 to 29,999 pounds.....	2,378	100.0	35.9	46.9	16.9	.1	-	-	.2
30,000 pounds and over.....	7,856	100.0	61.4	28.4	8.4	-	-	1.8	-

NOTE: Because of rounding, detail may not add to total.

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 4. **Tons of Shipments—Means of Transport,
Distance Shipped, and Weight: 1963**

Distance and weight	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS									
Total.....	128,599	100.0	31.2	27.5	40.6	-	0.1	0.5	0.1
Under 200 miles.....	13,167	100.0	14.5	15.4	69.9	-	-	-	.2
Under 1,000 pounds.....	2,194	100.0	.1	8.6	91.2	-	-	.1	-
1,000 to 9,999 pounds.....	3,070	100.0	4.6	11.7	82.9	-	-	-	.8
10,000 to 29,999 pounds.....	2,108	100.0	7.6	26.9	65.5	-	-	-	-
30,000 pounds and over.....	5,795	100.0	27.8	15.8	56.4	-	-	-	-
200 to 399 miles.....	4,902	100.0	26.6	43.3	30.1	-	-	-	-
Under 1,000 pounds.....	212	100.0	.2	41.7	58.1	-	-	-	-
1,000 to 29,999 pounds.....	2,036	100.0	3.2	54.5	42.3	-	-	-	-
30,000 pounds and over.....	2,654	100.0	46.6	34.9	18.5	-	-	-	-
400 miles and over.....	10,530	100.0	54.2	35.2	9.1	-	.2	1.2	.1
Under 10,000 pounds.....	760	100.0	15.5	60.1	24.0	-	-	.4	-
10,000 to 29,999 pounds.....	2,633	100.0	37.7	45.2	16.1	0.1	.7	.2	-
30,000 pounds and over.....	7,137	100.0	64.4	28.9	4.9	-	-	1.7	.1

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 5. Tons and Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons and ton-miles	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
	TONS OF SHIPMENTS	(Thousands of tons)								
	Total products shipped.....	39,787	100.0	27.1	29.8	42.6	-	0.1	0.3	0.1
	Total primary commodities ¹ ..	33,240	100.0	28.4	29.7	41.3	-	.1	.4	.1
	Total other commodities ² ...	6,547	100.0	20.3	30.0	49.6	-	-	.1	-
	Selected Primary Commodities ³									
201	Meat, poultry and small game; fresh, chilled or frozen.....	24,360	100.0	30.2	32.9	36.2	-	.1	.5	.1
2011	Meat, fresh or chilled, not salted.....	10,482	100.0	28.9	37.7	33.1	-	-	-	.3
2013	Meat products.....	5,008	100.0	36.0	21.1	41.9	-	.4	.6	-
2014	Animal by-products, inedible...	2,829	100.0	64.2	14.8	21.0	-	-	-	-
2015	Dressed poultry and small game; fresh, chilled, or canned.....	4,052	100.0	6.7	47.7	45.5	-	-	-	.1
202	Dairy products.....	8,636	100.0	23.3	21.7	55.0	-	-	-	-
2021	Creamery butter.....	1,550	100.0	24.3	53.7	22.0	-	-	-	-
2023	Condensed, evaporated, and dry milk.....	2,521	100.0	51.6	20.9	27.4	-	-	-	.1
2024	Ice cream and related frozen desserts.....	884	100.0	.1	.1	99.5	-	.3	-	-
2025	Cheese and special dairy products.....	1,301	100.0	25.8	39.0	35.2	-	-	-	-
	TON-MILES	(Millions of ton-miles)								
	Total.....	15,910	100.0	46.5	36.2	16.2	-	.1	.9	.1
	Total primary commodities ¹ ..	14,410	100.0	45.8	36.7	16.3	-	.1	1.0	.1
	Total other commodities ² ...	1,500	100.0	52.4	31.8	15.6	-	-	.1	.1
	Selected Primary Commodities ³									
201	Meat, poultry and small game; fresh, chilled or frozen.....	11,709	100.0	46.4	37.7	14.4	-	.2	1.2	.1
2011	Meat, fresh or chilled, not salted.....	5,730	100.0	44.4	45.9	9.6	-	-	-	.1
2013	Meat products.....	2,091	100.0	61.7	23.0	12.8	0.1	.7	1.7	-
2014	Animal by-products, inedible...	1,023	100.0	88.6	5.6	5.8	-	-	-	-
2015	Dressed poultry and small game; fresh, chilled, or canned.....	1,872	100.0	18.2	49.2	32.5	-	-	-	.1
202	Dairy products.....	2,636	100.0	43.5	33.2	23.2	-	-	-	.1
2021	Creamery butter.....	994	100.0	33.6	55.5	10.9	-	-	-	-
2023	Condensed, evaporated, and dry milk.....	894	100.0	63.9	20.4	15.5	-	-	-	.2
2024	Ice cream and related frozen desserts.....	85	100.0	.1	.1	99.7	-	.1	-	-
2025	Cheese and special dairy products.....	499	100.0	48.5	27.8	23.7	-	-	-	-

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 201, 202, and 2094.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 6. Tons of Shipments—Distance Shipped and
Commodity: 1963

TCC code	Commodity	Tons (thousands)	Percent distribution by distance of shipment								
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
	Total products shipped.	39,787	100.0	34.6	14.3	9.0	7.1	4.6	17.7	10.4	2.3
	Total primary com- modities ¹	33,240	100.0	31.1	14.1	9.4	7.1	4.9	19.2	11.6	2.6
	Total other com- modities ²	6,547	100.0	53.2	15.1	7.1	7.2	3.0	10.1	3.9	.4
	Selected Primary Commodities ³										
201	Meat, poultry and small game; fresh, chilled or frozen.....	24,360	100.0	26.3	14.1	8.1	7.8	5.7	21.1	13.7	3.2
2011	Meat, fresh or chilled, not salted.....	10,482	100.0	26.5	10.5	8.7	5.9	3.8	21.5	19.3	3.8
2013	Meat products.....	5,008	100.0	31.7	16.0	7.6	4.5	6.0	22.8	10.1	1.3
2014	Animal by-products, in- edible.....	2,829	100.0	30.9	28.3	5.2	6.8	3.8	14.5	7.0	3.5
2015	Dressed poultry and small game; fresh, chilled or canned.....	4,052	100.0	15.8	12.2	10.2	16.6	11.4	22.8	6.6	4.4
202	Dairy products.....	8,636	100.0	45.2	13.7	12.6	4.1	3.0	14.2	6.1	1.1
2021	Creamery butter.....	1,550	100.0	13.1	8.5	20.9	1.0	2.3	26.7	25.3	2.2
2023	Condensed, evaporated and dry milk.....	2,521	100.0	21.1	18.2	23.2	7.6	4.8	21.8	2.4	.9
2024	Ice cream and related frozen desserts.....	884	100.0	61.9	31.2	2.5	3.8	.4	-	-	.2
2025	Cheese and special dairy products.....	1,301	100.0	25.2	20.3	12.0	7.8	7.0	19.7	5.2	2.8

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 201, 202, and 2094.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 7. Tons of Shipments—Means of Transport, Geographic Division of Origin, and Distance Shipped: 1963

Geographic division and distance	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
United States, total.....	39,787	100.0	27.1	29.8	42.6	-	0.1	0.3	0.1
Under 200 miles.....	19,470	100.0	11.2	17.8	70.9	-	-	-	.1
200 to 399 miles.....	6,410	100.0	25.0	47.1	27.9	-	-	-	-
400 to 599 miles.....	3,458	100.0	39.7	45.1	15.1	-	-	-	.1
600 to 999 miles.....	5,426	100.0	49.3	42.7	7.5	-	.4	-	.1
1,000 miles and over.....	5,023	100.0	59.0	29.6	8.8	-	.1	2.5	-
New England and Middle Atlantic ¹	3,055	100.0	5.9	27.9	66.1	-	-	.1	-
East North Central and West North Central.....	24,758	100.0	32.1	29.5	37.8	-	-	.5	.1
Under 200 miles.....	11,400	100.0	10.5	19.3	70.0	-	-	-	.2
200 to 399 miles.....	3,878	100.0	33.5	48.8	17.7	-	-	-	-
400 to 599 miles.....	1,965	100.0	47.7	38.3	14.0	-	-	-	-
600 to 999 miles.....	3,682	100.0	59.1	36.1	4.6	-	-	-	.2
1,000 miles and over.....	3,833	100.0	61.0	29.2	6.5	-	-	3.3	-
South Atlantic, East South Central, and West South Central.....	8,603	100.0	23.9	26.5	49.3	-	.3	-	-
Under 200 miles.....	4,007	100.0	21.4	8.3	70.3	-	-	-	-
200 to 399 miles.....	1,609	100.0	14.7	31.2	54.1	-	-	-	-
400 miles and over.....	2,987	100.0	32.1	48.3	18.7	-	.8	-	.1
Mountain and Pacific ²	3,371	100.0	17.8	42.1	40.0	-	.1	-	-
Under 200 miles.....	1,647	100.0	6.3	23.4	70.0	-	.2	-	.1
200 miles and over.....	1,724	100.0	28.9	59.9	11.2	-	-	-	-

¹Insufficient number of observations to distribute by mileage block.

²No data were obtained on shipments originating in Alaska and Hawaii.

CENSUS GEOGRAPHIC DIVISIONS

New England—Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut

Middle Atlantic—New York, New Jersey, Pennsylvania

East North Central—Ohio, Indiana, Illinois, Michigan, Wisconsin

West North Central—Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, Kansas

South Atlantic—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida

East South Central—Kentucky, Tennessee, Alabama, Mississippi

West South Central—Arkansas, Louisiana, Oklahoma, Texas

Mountain—Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada

Pacific—Washington, Oregon, California, Alaska, Hawaii

TABLE 8. Tons and Ton-Miles of Shipments—Means of Transport and Geographic Division of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
United States, total.....	39,787	100.0	27.1	29.8	42.6	-	0.1	0.3	0.1
Shipments originating from—									
New England.....	1,069	100.0	12.6	30.4	56.9	-	-	.1	-
Middle Atlantic.....	1,986	100.0	2.3	26.5	71.1	-	-	.1	-
East North Central.....	7,530	100.0	23.7	36.2	39.7	-	-	.1	.3
West North Central.....	17,228	100.0	35.8	26.5	36.9	-	-	.7	.1
South Atlantic.....	4,053	100.0	21.4	28.2	50.3	-	-	-	.1
East South Central.....	2,265	100.0	13.5	33.6	52.0	-	.9	-	-
West South Central.....	2,285	100.0	38.5	16.4	44.9	-	.2	-	-
Mountain.....	893	100.0	19.7	55.6	24.6	-	-	.1	-
Pacific ¹	2,478	100.0	17.1	37.2	45.6	-	.1	-	-
TON-MILES	(Millions of ton-miles)								
United States, total.....	15,910	100.0	46.5	36.2	16.2	-	.1	.9	.1
Shipments originating from—									
New England.....	154	100.0	33.4	37.4	29.1	-	-	.1	-
Middle Atlantic.....	289	100.0	7.9	40.0	51.4	-	-	.7	-
East North Central.....	1,762	100.0	34.1	46.3	19.6	-	-	-	-
West North Central.....	8,823	100.0	56.3	31.4	10.6	-	-	1.6	.1
South Atlantic.....	1,120	100.0	26.3	41.0	32.6	-	-	-	.1
East South Central.....	758	100.0	10.0	58.6	29.5	-	1.9	-	-
West South Central.....	1,276	100.0	47.8	23.7	28.0	-	.5	-	-
Mountain.....	817	100.0	31.8	58.6	9.5	-	-	.1	-
Pacific ¹	911	100.0	55.8	34.8	9.4	-	-	-	-

¹No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 9. Tons and Ton-Miles of Shipments—Geographic Division of Destination and of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by geographic division of destination									
		All divisions	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific ¹
TONS OF SHIPMENTS	(Thousands of tons)										
United States, total.....	39,787	100.0	5.6	16.9	24.8	18.2	14.0	4.3	6.4	1.8	8.0
Shipments originating from—											
New England.....	1,069	100.0	56.5	36.7	-	-	6.8	-	-	-	-
Middle Atlantic.....	1,986	100.0	2.2	72.5	5.9	1.9	17.2	-	.3	-	-
East North Central.....	7,530	100.0	2.8	10.2	70.9	2.7	7.3	4.2	1.1	.1	.7
West North Central.....	17,228	100.0	6.3	14.8	18.7	39.2	8.2	2.0	5.9	1.0	3.9
South Atlantic.....	4,053	100.0	2.1	26.3	5.4	1.0	63.7	1.4	.1	-	-
East South Central.....	2,265	100.0	4.3	2.8	24.1	2.5	14.9	41.2	8.7	-	1.5
West South Central.....	2,285	100.0	3.0	12.2	6.6	4.6	4.5	1.6	52.3	12.0	3.2
Mountain.....	893	100.0	5.8	17.8	17.2	3.6	8.0	-	5.4	22.5	19.7
Pacific ²	2,478	100.0	-	.1	4.4	.2	3.4	1.7	-	2.8	87.4
TON-MILES	(Millions of ton-miles)										
United States, total.....	15,910	100.0	11.3	27.3	15.7	5.1	17.1	3.2	6.1	3.0	11.2
Shipments originating from—											
New England.....	154	100.0	30.7	44.1	-	-	25.2	-	-	-	-
Middle Atlantic.....	289	100.0	3.2	46.9	13.6	11.6	22.1	-	2.6	-	-
East North Central.....	1,762	100.0	9.6	23.6	29.8	3.0	17.2	6.2	4.1	.7	5.8
West North Central.....	8,823	100.0	14.3	28.8	12.7	6.9	15.5	2.3	6.7	1.7	11.1
South Atlantic.....	1,120	100.0	2.5	44.0	9.6	2.4	39.9	1.0	.2	-	.4
East South Central.....	758	100.0	12.3	4.8	33.9	5.2	16.6	12.3	6.9	-	8.0
West South Central.....	1,276	100.0	8.2	29.6	8.6	1.9	7.4	.5	16.5	19.4	7.9
Mountain.....	817	100.0	11.1	31.3	17.4	2.6	13.9	-	5.4	3.9	14.4
Pacific ²	911	100.0	-	.7	21.7	.6	18.0	8.8	.1	3.8	46.3

¹Shipments to Alaska and Hawaii from the 48 conterminous States and the District of Columbia are included.²No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 10. Tons and Ton-Miles of Shipments—Means of Transport and Employment Size of Establishment: 1963

Employment size of establishment	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS		(Thousands of tons)							
Total.....	39,787	100.0	27.1	29.8	42.6	-	0.1	0.3	0.1
Number of employees—									
Under 20 employees.....	3,942	100.0	3.4	24.9	71.7	-	-	-	-
20 to 99 employees.....	7,613	100.0	20.5	28.2	51.2	-	-	.1	-
100 to 499 employees.....	16,386	100.0	22.1	29.4	48.3	-	-	-	.2
500 employees and over.....	11,846	100.0	46.0	32.9	19.8	-	.2	1.1	-
TON-MILES		(Millions of ton-miles)							
Total.....	15,910	100.0	46.5	36.2	16.2	-	.1	.9	.1
Number of employees—									
Under 20 employees.....	564	100.0	6.6	70.5	22.9	-	-	-	-
20 to 99 employees.....	2,388	100.0	38.5	37.7	23.8	-	-	-	-
100 to 499 employees.....	6,018	100.0	40.2	36.4	23.2	-	.1	-	.1
500 employees and over.....	6,940	100.0	57.9	32.7	7.0	-	.2	2.1	.1

TABLE 11. Tons of Shipments—Distance Shipped and Employment Size of Establishment: 1963

Employment size of establishment	Tons (thousands)	Percent distribution by distance of shipment								
		All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
Total tons.....	39,787	100.0	34.6	14.3	9.0	7.1	4.6	17.7	10.4	2.3
Number of employees—										
Under 20 employees.....	3,942	100.0	71.1	5.6	5.2	4.0	6.8	5.6	1.7	-
20 to 99 employees.....	7,613	100.0	35.0	19.9	15.3	6.5	2.2	13.3	7.2	.6
100 to 499 employees.....	16,386	100.0	41.9	12.4	6.2	8.8	3.7	15.4	8.4	3.2
500 employees and over.....	11,846	100.0	12.3	16.2	10.1	6.2	6.8	27.6	18.0	2.8

TABLE 12. **Tons of Shipments—Distance Shipped and Production Area of Origin: 1963**

Production Area of origin	Tons (thousands)	Percent distribution by distance of shipment							
		All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
TONS OF SHIPMENTS									
Total.....	39,787	100.0	34.6	14.3	9.0	11.7	17.7	10.4	2.3
Production Area 18 ¹	914	100.0	19.3	6.1	11.5	26.6	32.3	2.0	2.2
Balance of Production Areas.....	8,131	100.0	42.9	11.1	6.7	11.3	15.5	7.1	5.4
SMSA's outside Production Areas.	9,195	100.0	19.5	18.4	8.4	10.0	22.4	18.8	2.5
Balance of United States.....	21,547	100.0	38.7	14.0	10.0	12.0	15.9	8.4	1.0

¹For description of Production Areas, see map in appendix C.

TABLE 13. **Tons and Ton-Miles of Shipments—Area of Destination and of Origin: 1963**

Area of origin	Tons and ton-miles	Percent distribution by area of destination			
		All areas of destination	Production Areas	SMSA's outside Production Areas	Areas outside SMSA's
TONS OF SHIPMENTS	(Thousands of tons)				
United States, total.....	39,787	100.0	44.4	22.2	33.4
In Production Areas.....	9,045	100.0	59.1	20.5	20.4
In SMSA's outside Production Areas.....	9,195	100.0	48.6	26.6	24.8
Outside of SMSA's.....	21,547	100.0	36.3	21.1	42.6
TON-MILES	(Millions of ton- miles)				
United States, total.....	15,910	100.0	60.8	24.7	14.5
In Production Areas.....	3,601	100.0	65.2	20.9	13.9
In SMSA's outside Production Areas.....	4,919	100.0	62.0	25.4	12.6
Outside of SMSA's.....	7,390	100.0	57.8	26.1	16.1

Shipper Group 2

Canned and Frozen Foods and Other Food Products, Except Meat and Dairy Products

Data for Shipper Group 2 are based on a probability sample of 38,679 shipments reported by 323 establishments. The shipper group has been divided into four subgroups which can be closely related to industries classified in the Standard Industrial Classification (SIC). (This is the system of industrial classification developed over a period of years by experts on classification in government and private industry under the guidance of the Bureau of the Budget.) The subgroup and related SIC industries are as follows:

Shipper Subgroup 021.—Canned fruits and vegetables

SIC 2033.—Canned fruits, vegetables, preserves, jams and jellies

Shipper Subgroup 022.—Canned specialties, seafood, and frozen food

SIC 2031.—Canned and cured seafoods

SIC 2032.—Canned specialties

SIC 2034.—Dried and dehydrated fruits and vegetables

SIC 2035.—Pickled fruits and vegetables; vegetable sauces and seasonings; salad dressings

SIC 2036.—Fresh or frozen packaged fish

SIC 2037.—Frozen fruits, fruit juices, vegetables, and specialties

Shipper Subgroup 023.—Grain mill products and beet and cane sugar

SIC 2041.—Flour and other grain mill products

SIC 2042.—Prepared feeds for animals and fowls

SIC 2043.—Cereal preparations

SIC 2044.—Rice milling

SIC 2045.—Blended and prepared flour

SIC 2046.—Wet corn milling

SIC 2061.—Cane sugar, except refining only

SIC 2062.—Cane sugar refining

SIC 2063.—Beet sugar

Shipper Subgroup 024.—Miscellaneous food preparations and kindred products

SIC 2091.—Cottonseed oil mills

SIC 2092.—Soybean oil mills

SIC 2093.—Vegetable oil mills, except cottonseed and soybean

SIC 2095.—Roasted coffee

SIC 2096.—Shortening, table oils, margarine and other edible fats and oils, n.e.c.

SIC 2098.—Macaroni, spaghetti, vermicelli, and noodles

SIC 2099.—Food preparations, n.e.c.

Commodities primary to these industries are classified in the following Transportation Commodity Classifications (TCC):¹

TCC 203.—Canned and preserved fruits, vegetables, and seafoods

TCC 204.—Grain mill products

TCC 206.—Sugar, beet and cane

TCC 209.—Miscellaneous food preparations and kindred products, except 2094 (marine fats and oils) and 2097 (ice)

Data for these commodities are included in the Commodity Series chapter: Commodity Group 20, Food and Kindred Products.

Because the data are based on a probability sample, they are subject to sampling variability. The term "sampling variability" refers to the differences that would be expected between results of a sample survey and results that would have been obtained from a complete enumeration of plants and shipping documents. Estimates of sampling variability for Shipper Group 2 on total tons and on key items, are shown below:

Item	Estimated tons based on sample (thousands)	Sampling variability (percent)
Total tons.....	125,726	9.4
SHIPPER SUBGROUPS		
021 Canned fruits and vegetables...	15,123	24.8
022 Canned specialties, seafood and frozen food.....	15,367	17.8
023 Grain mill products and beet and cane sugar.....	59,308	12.2
024 Miscellaneous food preparations and kindred products.....	35,928	23.0
MEANS OF TRANSPORT		
Rail.....	75,212	13.1
Motor carrier.....	27,164	11.5
Private truck.....	21,910	13.8
Water.....	932	33.5
Other.....	508	35.7
ORIGIN OF SHIPMENT (Geographic Division)		
New England.....	2,413	35.9
Middle Atlantic.....	12,614	20.4
East North Central.....	28,423	31.0
West North Central.....	19,885	27.1
South Atlantic.....	15,970	32.8
East South Central.....	12,840	34.6
West South Central.....	19,074	39.3
Mountain and Pacific.....	14,507	22.1

¹See *Commodity Classification for Transportation Statistics, 1963, Executive Office of the President, Bureau of the Budget.*

TABLE 1. **Tons and Ton-Miles of Shipments—Means of Transport and Shipper Subgroup: 1963**

Shipper subgroup	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
2 Canned and frozen foods and other food products, except meat and dairy products.....	125,726	100.0	59.9	21.6	17.4	-	0.7	0.1	0.3
021 Canned fruits and vegetables...	15,123	100.0	44.4	32.8	21.1	-	1.5	.1	.1
022 Canned specialties, seafood and frozen food.....	15,367	100.0	37.5	38.8	20.9	-	1.8	.1	.9
023 Grain mill products and beet and cane sugar.....	59,308	100.0	68.0	12.5	19.0	-	.3	.1	.1
024 Miscellaneous food preparations and kindred products.....	35,928	100.0	62.5	24.6	11.7	-	.6	.1	.5
TON-MILES	(Millions of ton-miles)								
2 Canned and frozen foods and other food products, except meat and dairy products.....	49,258	100.0	74.9	16.8	6.6	-	1.3	.2	.2
021 Canned fruits and vegetables...	9,953	100.0	74.8	16.6	6.6	-	1.9	.1	-
022 Canned specialties, seafood and frozen food.....	8,750	100.0	56.4	31.1	8.9	-	3.2	.2	.2
023 Grain mill products and beet and cane sugar.....	20,121	100.0	86.7	7.0	5.6	-	.6	.1	-
024 Miscellaneous food preparations and kindred products.....	10,434	100.0	67.9	24.0	6.7	-	.4	.4	.6

TABLE 2. **Tons of Shipments—Means of Transport and Distance Shipped: 1963**

Distance shipped ¹	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
All distances.....	125,726	100.0	59.9	21.6	17.4	-	0.7	0.1	0.3
Under 50 miles.....	13,883	100.0	24.1	23.3	50.3	-	1.2	.2	.9
50 to 99 miles.....	14,259	100.0	38.2	29.2	31.9	-	.6	.1	-
100 to 199 miles.....	25,774	100.0	55.8	24.2	19.0	-	.6	.1	.3
200 to 299 miles.....	17,827	100.0	58.5	24.9	15.9	-	.3	.1	.3
300 to 399 miles.....	13,792	100.0	71.0	20.3	8.4	-	.2	-	.1
400 to 499 miles.....	7,350	100.0	78.2	13.7	7.8	-	.1	.1	.1
500 to 599 miles.....	6,492	100.0	77.0	17.0	5.7	-	-	-	.3
600 to 799 miles.....	11,567	100.0	78.8	18.2	2.1	-	.4	.1	.4
800 to 999 miles.....	5,749	100.0	76.7	17.1	2.7	-	3.4	-	.1
1,000 to 1,199 miles.....	2,534	100.0	78.7	17.8	2.4	-	.8	.1	.2
1,200 to 1,499 miles.....	1,689	100.0	79.5	16.5	2.9	0.1	1.0	-	-
1,500 to 1,999 miles.....	2,461	100.0	88.1	9.7	1.0	-	.3	.9	-
2,000 miles and over.....	2,349	100.0	89.2	5.3	.2	-	5.1	.2	-

NOTE: Percent distributions by ton-miles are about the same as those for tons because data are grouped in mileage blocks.

¹Distances of shipments to foreign destinations are calculated only to the American port of exit.

TABLE 3. Tons and Ton-Miles of Shipments—Means of Transport and Weight: 1963

Weight	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
Total.....	¹ 82,051	100.0	57.2	22.9	18.9	-	0.6	0.2	0.2
Shipments—									
Under 1,000 pounds.....	1,297	100.0	1.6	74.5	21.4	-	.1	1.7	.7
Under 100 pounds.....	60	100.0	.5	28.9	62.4	0.2	-	7.9	.1
100 to 199 pounds.....	109	100.0	.3	69.3	25.0	.1	-	2.7	2.6
200 to 499 pounds.....	440	100.0	2.2	79.1	16.8	-	-	1.4	.5
500 to 999 pounds.....	688	100.0	1.5	76.2	20.3	-	.2	1.2	.6
1,000 to 9,999 pounds.....	7,107	100.0	1.5	47.9	49.2	-	.3	.9	.2
1,000 to 1,999 pounds.....	1,048	100.0	1.7	71.6	25.7	-	.2	.5	.3
2,000 to 2,999 pounds.....	995	100.0	1.6	57.7	39.4	-	.3	.9	.1
3,000 to 4,999 pounds.....	1,757	100.0	1.1	53.6	44.9	-	.2	-	.2
5,000 to 9,999 pounds.....	3,307	100.0	1.6	34.5	62.0	-	.3	1.5	.1
10,000 to 29,999 pounds.....	12,181	100.0	6.6	35.6	57.2	-	.2	.3	.1
10,000 to 19,999 pounds.....	6,588	100.0	2.5	24.7	72.3	-	.1	.3	.1
20,000 to 29,999 pounds.....	5,593	100.0	11.5	48.5	39.2	-	.4	.3	.1
30,000 to 59,999 pounds.....	24,734	100.0	43.8	36.7	18.7	-	.6	-	.2
30,000 to 39,999 pounds.....	9,479	100.0	16.5	52.7	29.7	-	1.0	-	.1
40,000 to 49,999 pounds.....	9,111	100.0	49.1	31.9	18.2	-	.5	-	.3
50,000 to 59,999 pounds.....	6,144	100.0	78.2	19.3	2.5	-	-	-	-
60,000 to 89,999 pounds.....	17,753	100.0	96.1	2.9	.3	-	.7	-	-
90,000 pounds and over.....	18,979	100.0	95.2	2.6	.5	-	.9	.1	.7
TON-MILES	(Millions of ton-miles)								
Total.....	¹ 29,173	100.0	73.6	18.1	7.1	-	.8	.3	.1
Shipments—									
Under 1,000 pounds.....	348	100.0	3.1	83.5	8.2	.1	.5	3.4	1.2
Under 100 pounds.....	13	100.0	1.2	47.1	31.4	.4	-	19.4	.5
100 to 199 pounds.....	31	100.0	.8	86.6	7.6	.3	-	3.4	1.3
200 to 499 pounds.....	117	100.0	3.2	88.2	5.9	.1	.2	2.1	.3
500 to 999 pounds.....	187	100.0	3.6	82.4	8.2	.1	.7	3.2	1.8
1,000 to 9,999 pounds.....	1,551	100.0	6.9	61.0	28.0	-	.7	3.0	.4
1,000 to 1,999 pounds.....	255	100.0	4.6	78.3	14.1	-	1.1	.9	1.0
2,000 to 2,999 pounds.....	216	100.0	5.4	66.8	24.2	-	1.2	2.3	.1
3,000 to 4,999 pounds.....	390	100.0	4.2	70.5	24.3	-	.5	-	.5
5,000 to 9,999 pounds.....	690	100.0	9.6	47.4	36.4	-	.6	5.7	.3
10,000 to 29,999 pounds.....	2,402	100.0	23.1	45.5	30.8	-	.4	.2	-
10,000 to 19,999 pounds.....	1,047	100.0	14.9	42.0	42.4	-	.4	.3	-
20,000 to 29,999 pounds.....	1,355	100.0	29.4	48.1	22.0	-	.3	.1	.1
30,000 to 59,999 pounds.....	8,527	100.0	58.0	31.1	10.0	-	.8	-	.1
30,000 to 39,999 pounds.....	3,082	100.0	31.1	50.3	17.5	.1	.8	-	.2
40,000 to 49,999 pounds.....	2,972	100.0	66.0	22.5	9.8	-	1.4	.1	.2
50,000 to 59,999 pounds.....	2,473	100.0	81.6	17.6	.8	-	-	-	-
60,000 to 89,999 pounds.....	8,607	100.0	97.3	2.2	.1	-	.4	-	-
90,000 pounds and over.....	7,738	100.0	96.8	1.3	.1	-	1.6	.1	.1

NOTE: Because of rounding, detail may not add to total.

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 4. Tons of Shipments—Means of Transport,
Distance Shipped, and Weight: 1963

Distance and weight	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS									
Total.....	¹ 82,051	100.0	57.2	22.9	18.9	-	0.6	0.2	0.2
Under 200 miles.....	36,956	100.0	39.1	25.9	33.8	-	.6	.2	.4
Under 1,000 pounds.....	735	100.0	.8	63.2	34.7	-	-	.5	.8
1,000 to 9,999 pounds.....	4,500	100.0	.4	34.8	64.1	-	.1	.6	-
10,000 to 29,999 pounds.....	8,837	100.0	1.9	28.2	69.1	-	.3	.4	.1
30,000 to 59,999 pounds.....	10,878	100.0	27.9	42.3	28.6	-	.9	-	.3
60,000 pounds and over.....	12,006	100.0	93.5	3.8	1.1	-	.7	-	.9
200 to 399 miles.....	21,252	100.0	64.1	25.6	9.7	-	.4	.1	.1
Under 1,000 pounds.....	318	100.0	2.3	90.3	4.1	-	-	3.1	.2
1,000 to 9,999 pounds.....	1,720	100.0	.8	74.5	23.4	-	.5	.6	.2
10,000 to 29,999 pounds.....	1,779	100.0	8.9	61.7	29.3	-	-	-	.1
30,000 to 59,999 pounds.....	6,676	100.0	46.7	36.6	16.7	-	-	-	-
60,000 pounds and over.....	10,759	100.0	95.8	3.1	.2	-	.8	-	.1
400 to 599 miles.....	8,890	100.0	77.3	15.9	6.5	-	.1	.1	.1
Under 10,000 pounds.....	487	100.0	2.8	69.2	25.9	-	.1	.7	1.3
10,000 pounds and over.....	8,403	100.0	81.7	12.8	5.4	-	.1	-	-
600 to 999 miles.....	10,271	100.0	78.1	17.3	2.8	-	1.4	.2	.2
Under 10,000 pounds.....	413	100.0	6.6	71.5	19.9	0.1	.3	1.4	.2
10,000 to 59,999 pounds.....	3,523	100.0	55.3	38.0	5.9	-	.5	-	.3
60,000 pounds and over.....	6,335	100.0	95.4	2.2	-	-	2.0	.2	.2
1,000 miles and over.....	4,682	100.0	84.2	12.5	1.7	.1	.8	.6	.1
Under 10,000 pounds.....	232	100.0	18.3	60.0	6.8	.1	2.5	10.5	1.8
10,000 pounds and over.....	4,450	100.0	87.5	10.1	1.5	.1	.8	-	-

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 5. Tons and Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons and ton-miles	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
	TONS OF SHIPMENTS	(Thousands of tons)								
	Total products shipped.....	125,726	100.0	59.9	21.6	17.4	-	0.7	0.1	0.3
	Total primary commodities ¹ ..	118,222	100.0	61.1	19.9	17.8	-	.8	.1	.3
	Total other commodities ² ...	7,504	100.0	38.5	48.9	12.0	-	-	.5	.1
	Selected Primary Commodities ³									
203	Canned and preserved fruits, vegetables, and sea foods.....	25,814	100.0	39.1	36.3	22.1	-	1.9	.1	.5
2031	Canned and cured sea foods.....	519	100.0	70.0	20.1	5.5	0.2	4.2	-	-
2032	Canned specialties.....	2,376	100.0	60.0	37.4	2.2	-	.4	-	-
2033	Canned fruits and vegetables.....	14,230	100.0	42.9	31.6	22.7	-	2.6	.1	.1
2034	Dried or dehydrated fruits and vegetables and soup mixes.....	772	100.0	25.8	48.7	4.2	-	7.2	-	14.1
2035	Pickles, vegetable sauces, seasonings and salad dressings.....	2,820	100.0	21.8	33.3	44.4	-	.2	.3	-
2036	Fresh or frozen packaged fish and other sea food.....	475	100.0	-	79.9	16.0	-	1.1	.1	2.9
2037	Frozen fruits, vegetables, fruit juices and specialties.....	4,575	100.0	30.1	47.2	22.3	-	.3	-	.1
204	Grain mill products.....	47,588	100.0	70.3	10.6	18.8	-	.1	.1	.1
2041	Flour and other grain mill products.....	21,651	100.0	84.6	4.1	11.0	-	.1	.1	.1
2042	Prepared feed for animals, fish and fowls (except hay, straw or related products).....	14,616	100.0	38.2	18.3	43.3	-	.2	-	-
2043	Cereal preparations.....	1,125	100.0	94.7	5.1	-	-	-	.2	-
2045	Blended and prepared flour.....	2,091	100.0	77.3	20.8	1.9	-	-	-	-
2046	Cornstarch, syrup or oil, corn sugar and corn by-products (wet-process).....	4,647	100.0	88.6	8.8	2.6	-	-	-	-
206	Sugar, beet and cane.....	9,134	100.0	58.2	20.1	19.7	-	1.8	.1	.1
2062	Sugar, refined, cane and beet....	7,438	100.0	56.6	20.2	20.8	-	2.2	.2	-
209	Miscellaneous food preparations and kindred products.....	35,671	100.0	65.7	20.2	12.8	-	.7	.1	.5
2091	Cottonseed oil and by-products...	6,189	100.0	75.0	9.2	15.8	-	-	-	-
2092	Soybean oil and by-products (except cotton linters and regins).	15,210	100.0	90.3	1.3	8.4	-	-	-	-
2095	Roasted and instant coffee.....	1,525	100.0	32.1	54.5	12.9	-	.1	-	.4
2099	Miscellaneous food preparations..	7,844	100.0	40.5	36.4	19.5	-	3.1	.3	.2

See footnotes at end of table.

TABLE 5. Tons and Ton-Miles of Shipments—Means of Transport and Commodity: 1963—Continued

TCC code	Commodity	Tons and ton-miles	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
	TON-MILES	(Millions of ton-miles)								
	Total products shipped.....	49,258	100.0	74.9	16.8	6.6	-	1.3	0.2	0.2
	Total primary commodities ¹	46,482	100.0	76.2	15.3	6.8	-	1.4	.1	.2
	Total other commodities ²	2,776	100.0	51.4	42.7	4.1	0.1	.1	1.4	.2
	Selected Primary Commodities ³									
203	Canned and preserved fruits, vegetables, and sea foods.....	15,917	100.0	64.5	24.4	8.2	-	2.7	.1	.1
2031	Canned and cured sea foods.....	556	100.0	84.4	6.5	1.5	.4	7.2	-	-
2032	Canned specialties.....	745	100.0	73.2	25.8	.9	-	.1	-	-
2033	Canned fruits and vegetables.....	9,482	100.0	73.0	17.1	7.1	-	2.7	-	.1
2034	Dried or dehydrated fruits and vegetables and soup mixes.....	842	100.0	41.2	46.4	.8	-	11.4	-	.2
2035	Pickles, vegetable sauces, seasonings and salad dressings.....	1,006	100.0	38.4	31.7	27.7	-	1.5	.7	-
2036	Fresh or frozen packaged fish and other sea food.....	326	100.0	-	96.6	1.6	-	.7	.1	1.0
2037	Frozen fruits, vegetables, fruit juices and specialties.....	2,949	100.0	54.3	34.0	11.1	-	.5	-	.1
204	Grain mill products.....	15,750	100.0	88.1	6.6	4.9	-	.3	.1	-
2041	Flour and other grain mill products.....	8,324	100.0	95.2	1.6	2.9	-	.1	.1	.1
2042	Prepared feed for animals, fish and fowls (except hay, straw or related products).....	2,538	100.0	66.7	12.5	19.2	-	1.5	.1	-
2043	Cereal preparations.....	510	100.0	97.3	2.5	-	-	-	.2	-
2045	Blended and prepared flour.....	655	100.0	90.0	8.4	1.6	-	-	-	-
2046	Cornstarch, syrup or oil, corn sugar and corn by-products (wet-process).....	2,189	100.0	95.6	3.4	1.0	-	-	-	-
206	Sugar, beet and cane.....	3,524	100.0	79.1	9.1	8.6	-	2.9	.2	.1
2062	Sugar, refined, cane and beet....	3,120	100.0	78.2	9.2	9.0	-	3.3	.3	-
209	Miscellaneous food preparations and kindred products.....	11,286	100.0	75.5	16.5	6.8	-	.5	.1	.6
2091	Cottonseed oil and by-products...	1,916	100.0	86.3	7.1	6.6	-	-	-	-
2092	Soybean oil and by-products (except cotton lintens and regins).	3,523	100.0	92.8	1.3	5.9	-	-	-	-
2095	Roasted and instant coffee.....	633	100.0	50.4	41.1	7.8	-	.2	.1	.4
2099	Miscellaneous food preparations..	3,665	100.0	70.5	19.9	7.4	-	1.6	.3	.3

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 203, 204, 206, and 209, except 2094 and 2097.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 6. Tons of Shipments—Distance Shipped and Commodity: 1963

TCC code	Commodity	Tons (thousands)	Percent distribution by distance of shipment								
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
	Total products shipped.	125,726	100.0	22.4	20.5	14.2	11.0	5.8	18.9	3.4	3.8
	Total primary commodities ¹	118,222	100.0	22.5	20.7	13.7	11.1	5.9	18.8	3.3	4.0
	Total other commodities ²	7,504	100.0	20.9	17.1	21.1	8.3	5.2	21.5	4.3	1.6
	Selected Primary Commodities ³										
203	Canned and preserved fruits, vegetables, and sea foods.....	25,814	100.0	16.4	15.8	11.4	9.9	5.0	23.5	5.7	12.3
2031	Canned and cured sea foods.	519	100.0	5.2	21.3	4.6	8.0	1.5	12.8	12.3	34.3
2032	Canned specialties.....	2,376	100.0	21.3	23.6	19.9	12.4	6.9	12.0	2.2	1.7
2033	Canned fruits and vegetables.....	14,230	100.0	14.2	16.3	7.7	8.6	4.7	29.4	5.8	13.3
2034	Dried or dehydrated fruits and vegetables and soup mixes.....	772	100.0	31.5	4.8	3.5	6.2	2.1	3.7	4.5	43.7
2035	Pickles, vegetable sauces, seasonings and salad dressings.....	2,820	100.0	15.8	16.2	27.5	12.8	8.9	15.6	.4	2.8
2036	Fresh or frozen packaged fish and other sea food...	475	100.0	19.3	10.4	2.8	4.2	4.3	28.3	26.3	4.4
2037	Frozen fruits, vegetables, fruit juices and specialties.....	4,575	100.0	19.2	11.2	11.5	12.7	3.9	19.8	7.8	13.9
204	Grain mill products.....	47,588	100.0	25.3	22.3	12.0	9.9	5.2	21.5	2.8	1.0
2041	Flour and other grain mill products.....	21,651	100.0	15.5	24.1	13.0	7.4	5.8	29.8	4.3	.1
2042	Prepared feed for animals, fish and fowls (except hay, straw or related products)	14,616	100.0	50.9	26.1	10.0	3.2	1.7	6.9	.4	.8
2043	Cereal preparations.....	1,125	100.0	8.9	19.4	16.0	12.4	10.7	25.3	1.9	5.4
2045	Blended and prepared flour.	2,091	100.0	18.1	23.4	20.9	13.7	12.2	9.1	1.9	.7
2046	Cornstarch, syrup or oil, corn sugar and corn by-products (wet-process)....	4,647	100.0	13.6	16.3	12.2	6.5	11.5	32.6	3.4	3.9
206	Sugar, beet and cane.....	9,134	100.0	24.5	10.6	22.5	8.2	7.5	20.4	2.3	4.0
2062	Sugar, refined, cane and beet.....	7,438	100.0	23.9	10.2	17.9	9.6	8.5	22.2	2.8	4.9
209	Miscellaneous food preparations and kindred products	35,671	100.0	22.5	24.9	15.5	14.5	7.0	11.3	2.4	1.9
2091	Cottonseed oil and by-products.....	6,189	100.0	26.3	12.4	19.4	18.2	8.8	11.0	3.6	.3
2092	Soybean oil and by-products (except cotton linters and regins).....	15,210	100.0	22.0	35.7	13.4	16.1	7.0	5.5	.1	.2
2095	Roasted and instant coffee.	1,525	100.0	15.5	15.6	9.4	22.3	14.0	17.1	4.0	2.1
2099	Miscellaneous food preparations.....	7,844	100.0	18.9	22.8	13.2	8.1	4.8	19.8	5.9	6.5

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 203, 204, 206, and 209, except 2094 and 2097.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 7. Tons of Shipments—Means of Transport, Geographic Division of Origin, and Distance Shipped: 1963

Geographic division and distance	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
United States, total.....	125,726	100.0	59.9	21.6	17.4	-	0.7	0.1	0.3
Under 200 miles.....	53,916	100.0	42.9	25.3	30.5	-	.8	.1	.4
200 to 399 miles.....	31,619	100.0	63.9	22.9	12.6	-	.3	.1	.2
400 to 599 miles.....	13,842	100.0	77.7	15.3	6.8	-	-	-	.2
600 to 999 miles.....	17,316	100.0	78.1	17.8	2.3	-	1.4	.1	.3
1,000 miles and over.....	9,033	100.0	84.2	12.1	1.5	-	1.8	.3	.1
New England and Middle Atlantic.....	15,027	100.0	43.3	43.7	12.5	-	.2	.2	.1
Under 200 miles.....	8,103	100.0	33.8	46.9	18.8	-	.2	.2	.1
200 to 399 miles.....	4,223	100.0	54.1	40.9	5.0	-	-	-	-
400 miles and over.....	2,701	100.0	54.7	38.3	5.6	-	.6	.4	.4
East North Central and West North Central.....	48,308	100.0	68.4	17.8	13.3	-	-	.1	.4
Under 200 miles.....	18,293	100.0	49.2	23.2	27.1	-	-	-	.5
200 to 399 miles.....	10,811	100.0	64.0	24.4	11.0	-	-	.1	.5
400 to 599 miles.....	6,759	100.0	88.1	8.7	2.8	-	-	.1	.3
600 miles and over.....	12,445	100.0	89.9	8.9	.7	-	-	.2	.3
South Atlantic, East South Central and West South Central.....	47,884	100.0	58.8	16.4	23.4	-	1.2	.1	.1
Under 200 miles.....	22,284	100.0	47.7	14.5	36.6	-	1.0	.2	-
200 to 399 miles.....	14,388	100.0	69.7	13.6	15.9	-	.6	.1	.1
400 to 599 miles.....	4,940	100.0	72.7	16.5	10.7	-	.1	-	-
600 to 999 miles.....	4,947	100.0	61.5	29.4	4.0	-	4.7	.2	.2
1,000 miles and over.....	1,325	100.0	66.1	29.7	2.0	0.1	1.8	.1	.2
Mountain and Pacific ¹	14,507	100.0	51.7	28.7	16.6	-	2.2	-	.8
Under 200 miles.....	5,236	100.0	15.6	44.6	34.3	-	3.4	-	2.1
200 to 399 miles.....	2,197	100.0	44.3	41.7	13.9	-	.1	-	-
400 to 999 miles.....	2,417	100.0	68.9	21.4	8.7	-	.6	-	.4
1,000 miles and over.....	4,657	100.0	86.9	8.4	2.0	-	2.7	-	-

¹No data were obtained on shipments originating in Alaska and Hawaii.

CENSUS GEOGRAPHIC DIVISIONS

New England—Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut
Middle Atlantic—New York, New Jersey, Pennsylvania
East North Central—Ohio, Indiana, Illinois, Michigan, Wisconsin
West North Central—Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, Kansas
South Atlantic—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida
East South Central—Kentucky, Tennessee, Alabama, Mississippi
West South Central—Arkansas, Louisiana, Oklahoma, Texas
Mountain—Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada
Pacific—Washington, Oregon, California, Alaska, Hawaii

TABLE 8. Tons and Ton-Miles of Shipments—Means of Transport and Geographic Division of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
United States, total.....	125,726	100.0	59.9	21.6	17.4	-	0.7	0.1	0.3
Shipments originating from—									
New England.....	2,413	100.0	32.0	44.4	23.0	-	-	-	.6
Middle Atlantic.....	12,614	100.0	45.5	43.6	10.5	-	.2	.2	-
East North Central.....	28,423	100.0	64.9	22.4	11.8	-	-	.2	.7
West North Central.....	19,885	100.0	73.5	11.1	15.4	-	-	-	-
South Atlantic.....	15,970	100.0	46.5	22.6	27.9	-	2.7	.3	-
East South Central.....	12,840	100.0	69.2	11.3	19.5	-	-	-	-
West South Central.....	19,074	100.0	62.1	14.7	22.2	-	.8	.1	.1
Mountain.....	14,507	100.0	51.7	28.7	16.6	-	2.2	-	.8
Pacific ¹									
TON-MILES	(Millions of ton-miles)								
United States, total.....	49,258	100.0	74.9	16.8	6.6	-	1.3	.2	.2
Shipments originating from—									
New England.....	611	100.0	36.2	51.8	11.1	0.4	-	-	.5
Middle Atlantic.....	3,575	100.0	58.6	34.5	5.6	-	.7	.5	.1
East North Central.....	10,818	100.0	76.3	18.3	4.4	-	-	.4	.6
West North Central.....	8,102	100.0	90.7	4.7	4.6	-	-	-	-
South Atlantic.....	5,135	100.0	59.9	27.4	9.1	-	3.3	.2	.1
East South Central.....	3,191	100.0	81.6	9.5	8.8	-	.1	-	-
West South Central.....	6,134	100.0	62.5	19.7	15.7	-	1.9	.1	.1
Mountain.....	11,692	100.0	81.0	12.6	3.6	-	2.7	-	.1
Pacific ¹									

¹No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 9. Tons and Ton-Miles of Shipments—Geographic Division of Destination and of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by geographic division of destination									
		All divisions	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific ¹
TONS OF SHIPMENTS	(Thousands of tons)										
United States, total.....	125,726	100.0	4.1	14.0	19.5	11.2	16.5	9.1	16.9	1.5	7.2
Shipments originating from—											
New England.....	2,413	100.0	60.6	27.3	4.7	3.0	2.9	.5	.5	.2	.3
Middle Atlantic.....	12,614	100.0	14.8	49.2	13.8	1.2	16.9	1.0	1.6	.3	1.2
East North Central.....	28,423	100.0	4.1	16.5	46.5	7.8	9.8	8.7	4.2	.7	1.7
West North Central.....	19,885	100.0	1.3	7.9	24.4	41.3	3.5	6.7	12.9	.4	1.6
South Atlantic.....	15,970	100.0	1.6	18.2	6.6	7.7	58.1	4.6	2.8	.1	.3
East South Central.....	12,840	100.0	—	2.0	4.1	1.0	35.6	42.2	15.1	—	—
West South Central.....	19,074	100.0	.1	1.8	5.9	5.6	3.6	6.1	75.1	1.0	.8
Mountain.....	14,507	100.0	1.3	7.4	12.6	6.4	3.7	1.2	3.1	9.6	54.7
Pacific ²											
TON-MILES	(Millions of ton-miles)										
United States, total.....	49,258	100.0	5.1	18.0	18.8	9.7	15.5	6.9	15.9	2.3	7.8
Shipments originating from—											
New England.....	611	100.0	21.7	29.4	14.8	13.6	9.5	2.2	3.1	2.1	3.6
Middle Atlantic.....	3,575	100.0	15.1	22.3	21.4	3.3	16.1	2.3	7.1	1.7	10.7
East North Central.....	10,818	100.0	8.5	23.6	19.2	6.0	16.4	7.4	8.5	1.9	8.5
West North Central.....	8,102	100.0	3.8	17.7	21.4	14.3	7.3	10.2	18.6	.8	5.9
South Atlantic.....	5,135	100.0	2.8	16.7	12.1	20.5	27.9	7.2	9.4	1.0	2.4
East South Central.....	3,191	100.0	—	5.3	4.8	1.7	48.6	20.3	18.9	.4	—
West South Central.....	6,134	100.0	.4	5.6	13.2	6.5	6.8	5.5	55.7	2.0	4.3
Mountain.....	11,692	100.0	3.9	21.7	25.6	10.8	10.5	2.7	5.3	5.3	14.2
Pacific ²											

¹Shipments to Alaska and Hawaii from the 48 conterminous States and the District of Columbia are included.

²No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 10. Tons and Ton-Miles of Shipments—Means of Transport and Employment Size of Establishment: 1963

Employment size of establishment	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
Total.....	125,726	100.0	59.9	21.6	17.4	-	0.7	0.1	0.3
Number of employees—									
Under 20 employees.....	5,868	100.0	21.1	50.9	24.1	-	3.8	-	.1
20 to 99 employees.....	45,905	100.0	62.2	11.9	25.5	-	-	.1	.3
100 to 499 employees.....	51,310	100.0	59.0	26.1	13.6	-	.8	.1	.4
500 employees and over.....	22,643	100.0	67.0	23.4	8.0	-	1.4	.1	.1
TON-MILES .	(Millions of ton-miles)								
Total.....	49,258	100.0	74.9	16.8	6.6	-	1.3	.2	.2
Number of employees—									
Under 20 employees.....	1,568	100.0	29.9	59.9	7.9	-	2.3	-	-
20 to 99 employees.....	13,721	100.0	79.7	9.8	10.3	-	.1	.1	-
100 to 499 employees.....	22,423	100.0	72.2	19.8	6.0	-	1.5	.2	.3
500 employees and over.....	11,546	100.0	80.9	13.6	3.2	-	2.1	.1	.1

TABLE 11. Tons of Shipments—Distance Shipped and Employment Size of Establishment: 1963

Employment size of establishment	Tons (thousands)	Percent distribution by distance of shipment								
		All distances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
Total tons.....	125,726	100.0	22.4	20.5	14.2	11.0	5.8	18.9	3.4	3.8
Number of employees—										
Under 20 employees.....	5,868	100.0	34.4	22.6	18.3	5.7	1.7	14.4	1.4	1.5
20 to 99 employees.....	45,905	100.0	28.3	23.9	12.5	11.4	5.7	14.1	3.1	1.0
100 to 499 employees.....	51,310	100.0	18.7	19.2	15.3	11.9	5.1	21.4	3.3	5.1
500 employees and over.....	22,643	100.0	15.4	16.1	14.0	9.5	9.0	24.2	4.6	7.2

TABLE 12. **Tons of Shipments—Distance Shipped and
Production Area of Origin: 1963**

Production Area of origin	Tons (thousands)	Percent distribution by distance of shipment							
		All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
TONS OF SHIPMENTS									
Total.....	125,726	100.0	22.4	20.5	14.2	16.8	18.9	3.4	3.8
Production Areas ¹ —									
4.....	2,495	100.0	33.8	17.5	8.8	19.3	12.9	4.6	3.1
10.....	1,809	100.0	8.3	13.6	44.3	22.9	6.0	3.4	1.5
15.....	6,482	100.0	10.6	17.7	20.0	16.8	30.8	1.6	2.5
24.....	4,399	100.0	16.5	1.6	1.1	14.2	12.6	7.6	46.4
25.....	2,239	100.0	40.8	5.4	1.9	14.9	10.7	5.5	20.8
Balance of Production Areas....	18,987	100.0	24.2	24.8	21.6	14.6	13.0	1.5	.3
SMSA's outside Production Areas.....	31,557	100.0	19.5	24.3	10.2	17.3	22.2	4.3	2.2
Balance of United States.....	57,758	100.0	24.4	19.8	14.0	17.2	19.2	3.2	2.2

¹For description of Production Areas, see map in appendix C.

TABLE 13. **Tons and Ton-Miles of Shipments—Area of Destination
and of Origin: 1963**

Area of origin	Tons and ton-miles	Percent distribution by area of destination			
		All areas of destination	Production Areas	SMSA's outside Production Areas	Areas outside SMSA's
TONS OF SHIPMENTS	(Thousands of tons)				
United States, total.....	125,726	100.0	36.7	31.0	32.3
In Production Areas.....	36,411	100.0	51.8	25.9	22.3
In SMSA's outside Production Areas.....	31,557	100.0	30.2	37.2	32.6
Outside of SMSA's.....	57,758	100.0	30.6	30.9	38.5
TON-MILES	(Millions of ton- miles)				
United States, total.....	49,258	100.0	44.5	33.4	22.1
In Production Areas.....	16,369	100.0	54.1	28.7	17.2
In SMSA's outside Production Areas.....	12,285	100.0	42.2	34.5	23.3
Outside of SMSA's.....	20,604	100.0	38.3	36.3	25.4

Shipper Group 3

Candy, Beverages, and Tobacco Products

Data for Shipper Group 3 are based on a probability sample of 30,132 shipments reported by 253 establishments. The shipper group has been divided into four subgroups which can be closely related to industries classified in the Standard Industrial Classification (SIC). (This is the system of industrial classification developed over a period of years by experts on classification in government and private industry under the guidance of the Bureau of the Budget.) The subgroup and related SIC industries are as follows:

Shipper Subgroup 031.—Candy and confectionery
 SIC 2071.—Candy and other confectionery products
 SIC 2072.—Chocolate and cocoa products
 SIC 2073.—Chewing gum

Shipper Subgroup 032.—Alcoholic beverages
 SIC 2082.—Malt liquors
 SIC 2083.—Malt
 SIC 2084.—Wines, brandy, and brandy spirits
 SIC 2085.—Distilled, rectified, and blended liquors

Shipper Subgroup 033.—Bottled and canned soft drinks and flavorings
 SIC 2086.—Bottled and canned soft drinks and carbonated waters
 SIC 2087.—Flavoring extracts and flavoring syrups, n.e.c.

Shipper Subgroup 034.—Tobacco products
 SIC 2111.—Cigarettes
 SIC 2121.—Cigars
 SIC 2131.—Tobacco (chewing and smoking) and snuff
 SIC 2141.—Tobacco stemming and redrying

Commodities primary to these industries are classified in the following Transportation Commodity Classifications (TCC):¹

TCC 207.—Confectionary and related products
 TCC 208.—Beverages and flavoring extracts
 TCC 211.—Cigarettes
 TCC 212.—Cigars
 TCC 213.—Chewing and smoking tobacco, and snuff
 TCC 214.—Stemmed and redried tobacco

¹See *Commodity Classification for Transportation Statistics, 1963*, Executive Office of the President, Bureau of the Budget.

Data for these commodities are included in the Commodity Series chapters: Commodity Group 20, Food and Kindred Products, and Commodity Group 21, Tobacco Products.

Because the data are based on a probability sample, they are subject to sampling variability. The term "sampling variability" refers to the differences that would be expected between results of a sample survey and results that would have been obtained from a complete enumeration of plants and shipping documents. Estimates of sampling variability for Shipper Group 3 on total tons and on key items, are shown below:

Item	Estimated tons based on sample (thousands)	Sampling variability (percent)
Total tons.....	44,249	9.1
SHIPPER SUBGROUPS		
031 Candy and confectionery.....	3,768	14.1
032 Alcoholic beverages.....	23,051	8.5
033 Bottled and canned soft drinks and flavorings.....	15,054	27.3
034 Tobacco products.....	2,376	6.8
MEANS OF TRANSPORT		
Rail.....	9,889	17.3
Motor carrier.....	13,200	24.3
Private truck.....	20,203	10.8
Water.....	845	68.4
Other.....	112	18.5
ORIGIN OF SHIPMENT (Geographic Division)		
New England.....	2,289	32.3
Middle Atlantic.....	8,500	12.1
East North Central.....	10,654	24.5
West North Central.....	4,929	16.8
South Atlantic.....	8,822	46.7
East South Central.....	1,688	12.3
West South Central.....	2,015	45.6
Mountain and Pacific.....	5,352	23.0

TABLE 1. **Tons and Ton-Miles of Shipments—Means of Transport and Shipper Subgroup: 1963**

Shipper subgroup	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
3 Candy, beverages, and tobacco.....	44,249	100.0	22.3	29.8	45.7	-	1.9	0.2	0.1
031 Candy and confectionery.....	3,768	100.0	21.4	69.9	6.8	-	.9	.9	.1
032 Alcoholic beverages.....	23,051	100.0	33.1	18.7	47.1	-	1.0	-	.1
033 Bottled and canned soft drinks and flavorings.....	15,054	100.0	2.0	33.6	60.4	-	3.9	.1	-
034 Tobacco products.....	2,376	100.0	48.0	50.0	.7	-	-	1.1	.2
TON-MILES	(Millions of ton-miles)								
3 Candy, beverages, and tobacco.....	13,615	100.0	53.5	27.5	15.6	-	2.8	.5	.1
031 Candy and confectionery.....	2,391	100.0	46.1	46.9	4.3	-	1.5	1.1	.1
032 Alcoholic beverages.....	7,993	100.0	66.3	11.4	19.6	-	2.5	.1	.1
033 Bottled and canned soft drinks and flavorings.....	2,054	100.0	5.0	65.5	22.0	-	7.1	.4	-
034 Tobacco products.....	1,177	100.0	66.6	31.4	.2	-	-	1.7	.1

TABLE 2. **Tons of Shipments—Means of Transport and Distance Shipped: 1963**

Distance shipped ¹	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
All distances.....	44,249	100.0	22.3	29.8	45.7	-	1.9	0.2	0.1
Under 50 miles.....	12,145	100.0	4.0	17.4	78.3	-	.1	.1	.1
50 to 99 miles.....	5,141	100.0	6.3	33.1	58.4	-	2.1	.1	-
100 to 199 miles.....	8,543	100.0	12.5	30.0	55.2	-	2.1	.1	.1
200 to 299 miles.....	5,504	100.0	14.4	50.1	30.4	-	5.0	.1	-
300 to 399 miles.....	3,331	100.0	30.9	48.6	16.5	-	3.9	.1	-
400 to 499 miles.....	1,774	100.0	43.0	36.1	20.6	-	-	.2	.1
500 to 599 miles.....	1,181	100.0	55.8	33.6	9.9	-	-	.2	.5
600 to 799 miles.....	2,613	100.0	75.2	18.0	5.4	-	.5	.9	-
800 to 999 miles.....	1,235	100.0	61.0	30.7	5.6	-	2.0	.7	-
1,000 to 1,499 miles.....	1,183	100.0	53.1	39.3	3.7	-	3.8	.1	-
1,500 miles and over.....	1,599	100.0	88.7	5.8	.7	-	3.7	1.0	.1

NOTE: Percent distributions by ton-miles are about the same as those for tons because data are grouped in mileage blocks.

¹Distances of shipments to foreign destinations are calculated only to the American port of exit.

TABLE 3. Tons and Ton-Miles of Shipments—Means of Transport and Weight: 1963

Weight	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS		(Thousands of tons)							
Total.....	125,578	100.0	32.9	30.8	35.0	-	1.0	0.2	0.1
Shipments—									
Under 1,000 pounds.....	1,622	100.0	1.4	50.9	46.5	-	-	1.1	.1
Under 50 pounds.....	7	100.0	1.8	29.3	41.8	0.3	-	26.6	.2
50 to 99 pounds.....	52	100.0	1.4	26.0	69.3	-	-	3.3	-
100 to 199 pounds.....	213	100.0	2.0	31.4	65.6	-	-	1.0	-
200 to 499 pounds.....	820	100.0	1.3	48.8	49.1	-	-	.7	.1
500 to 999 pounds.....	530	100.0	1.1	64.8	32.7	-	-	1.2	.2
1,000 to 9,999 pounds.....	1,433	100.0	3.0	64.2	31.8	-	-	1.0	-
1,000 to 2,999 pounds.....	663	100.0	2.7	68.6	27.9	-	-	.8	-
3,000 to 9,999 pounds.....	770	100.0	3.3	60.3	35.2	-	-	1.2	-
10,000 to 29,999 pounds.....	3,034	100.0	5.5	40.7	52.1	-	1.0	.7	-
10,000 to 19,999 pounds.....	1,338	100.0	4.2	31.0	64.3	-	.3	.2	-
20,000 to 29,999 pounds.....	1,696	100.0	6.4	48.4	42.5	-	1.6	1.1	-
30,000 to 59,999 pounds.....	12,078	100.0	12.2	37.8	49.2	-	.7	-	.1
30,000 to 39,999 pounds.....	6,060	100.0	6.9	37.2	55.6	-	.3	-	-
40,000 to 59,999 pounds.....	6,018	100.0	17.5	38.4	42.8	-	1.2	-	.1
60,000 pounds and over.....	7,411	100.0	90.5	4.3	3.3	-	1.8	-	.1
TON-MILES		(Millions of ton- miles)							
Total.....	10,177	100.0	60.1	24.0	13.2	-	2.2	.4	.1
Shipments—									
Under 1,000 pounds.....	407	100.0	5.8	78.9	11.7	.1	-	3.3	.2
Under 50 pounds.....	3	100.0	4.8	39.4	9.0	.7	-	45.4	.7
50 to 99 pounds.....	9	100.0	9.4	56.9	23.7	-	-	9.9	.1
100 to 199 pounds.....	41	100.0	9.6	64.3	23.2	.3	-	2.6	-
200 to 499 pounds.....	195	100.0	6.2	79.0	12.5	.1	-	2.1	.1
500 to 999 pounds.....	159	100.0	4.1	84.6	7.0	-	-	4.0	.3
1,000 to 9,999 pounds.....	537	100.0	9.2	75.0	13.2	-	-	2.4	.2
1,000 to 2,999 pounds.....	234	100.0	10.2	78.0	9.5	-	-	2.2	.1
3,000 to 9,999 pounds.....	303	100.0	8.5	72.6	16.1	-	-	2.6	.2
10,000 to 29,999 pounds.....	816	100.0	19.0	47.9	29.3	-	2.2	1.6	-
10,000 to 19,999 pounds.....	327	100.0	16.6	45.4	36.4	-	.5	1.1	-
20,000 to 29,999 pounds.....	489	100.0	20.6	49.7	24.5	-	3.3	1.9	-
30,000 to 59,999 pounds.....	3,439	100.0	33.6	34.4	28.3	-	3.6	-	.1
30,000 to 39,999 pounds.....	1,449	100.0	21.3	43.9	33.6	-	1.2	-	-
40,000 to 59,999 pounds.....	1,990	100.0	42.4	27.7	24.4	-	5.3	-	.2
60,000 pounds and over.....	4,978	100.0	95.1	2.9	.4	-	1.6	-	-

NOTE: Because of rounding, detail may not add to total.

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 4. Tons of Shipments—Means of Transport,
Distance Shipped, and Weight: 1963

Distance and weight	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
Total.....	¹ 25,578	100.0	32.9	30.8	35.0	-	1.0	0.2	0.1
Under 200 miles.....	12,102	100.0	13.4	29.7	55.7	-	1.0	.1	.1
Under 1,000 pounds.....	1,033	100.0	.1	28.9	70.5	-	-	.4	.1
1,000 to 9,999 pounds.....	667	100.0	.3	47.8	51.6	-	-	.3	-
10,000 to 29,999 pounds.....	1,748	100.0	.7	27.7	70.5	-	.8	.3	-
30,000 pounds and over.....	8,654	100.0	18.6	28.7	51.4	-	1.2	-	.1
200 to 399 miles.....	5,437	100.0	28.8	42.6	28.6	-	-	-	-
Under 9,999 pounds.....	601	100.0	1.5	84.9	13.1	-	-	.4	.1
10,000 pounds and over.....	4,836	100.0	32.2	37.3	30.5	-	-	-	-
400 to 599 miles.....	2,515	100.0	46.7	35.4	17.5	-	-	.1	.3
Under 1,000 pounds.....	117	100.0	1.4	94.8	1.5	0.2	-	1.7	.4
1,000 pounds and over.....	2,398	100.0	48.9	32.5	18.3	-	-	-	.3
600 miles and over.....	5,524	100.0	73.2	19.5	4.2	-	2.4	.7	-
Under 1,000 pounds.....	198	100.0	8.8	84.0	2.1	-	-	4.8	.3
1,000 pounds and over.....	5,326	100.0	75.7	17.0	4.3	-	2.5	.5	-

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 5. Tons and Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons and ton-miles	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
	TONS OF SHIPMENTS	(Thousands of tons)								
	Total products shipped.....	44,249	100.0	22.3	29.8	45.7	-	1.9	0.2	0.1
	Total primary commodities ¹	41,966	100.0	21.0	29.1	47.6	-	2.0	.2	.1
	Total other commodities ²	2,283	100.0	47.0	42.3	10.0	-	.4	.3	-
	Selected Primary Commodities ³									
207	Confectionery and related products.....	3,178	100.0	22.5	70.0	5.7	-	.8	1.0	-
208	Beverages and flavoring extracts.....	36,921	100.0	19.3	24.8	53.6	-	2.2	-	.1
2082	Malt liquors.....	15,979	100.0	23.8	16.9	58.3	-	.9	-	.1
2085	Distilled, rectified, and blended liquors (except brandy and brandy spirits).....	2,700	100.0	42.5	34.9	18.8	-	3.3	.3	.2
2086	Bottled and canned soft drinks and carbonated, mineral, and plain waters.....	9,121	100.0	-	9.3	90.6	-	-	.1	-
2087	Miscellaneous flavoring extracts, syrups, and flavoring compounds (except chocolate syrups).....	5,476	100.0	2.1	73.7	13.5	-	10.6	.1	-
211	Cigarettes.....	1,042	100.0	51.1	48.7	-	-	-	.2	-
212	Cigars.....	89	100.0	5.8	79.6	.1	-	-	14.5	-
	TON-MILES	(Millions of ton-miles)								
	Total products shipped.....	13,615	100.0	53.5	27.5	15.6	-	2.8	.5	.1
	Total primary commodities ¹	12,809	100.0	53.2	27.3	16.3	-	2.8	.4	-
	Total other commodities ²	806	100.0	59.4	31.8	5.3	-	2.5	.8	.2
	Selected Primary Commodities ³									
207	Confectionery and related products.....	2,056	100.0	46.2	47.9	3.9	-	.8	1.2	-
208	Beverages and flavoring extracts.....	9,664	100.0	52.9	22.7	20.7	-	3.6	.1	-
2082	Malt liquors.....	3,832	100.0	53.3	11.5	34.1	-	1.0	-	.1
2085	Distilled, rectified, and blended liquors (except brandy and brandy spirits).....	1,516	100.0	59.9	21.4	8.3	-	10.0	.4	-
2086	Bottled and canned soft drinks and carbonated, mineral, and plain waters.....	474	100.0	-	27.5	72.5	-	-	-	-
2087	Miscellaneous flavoring extracts, syrups, and flavoring compounds (except chocolate syrups).....	1,478	100.0	4.0	78.7	7.1	-	9.8	.4	-
211	Cigarettes.....	767	100.0	72.6	27.1	-	-	-	.3	-
212	Cigars.....	47	100.0	21.4	65.2	.1	-	-	13.3	-

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 207, 208, 211, 212, 213, and 214.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 6. Tons of Shipments—Distance Shipped and
Commodity: 1963

TCC code	Commodity	Tons (thousands)	Percent distribution by distance of shipment								
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
	Total products shipped.	44,249	100.0	39.1	19.3	12.4	7.5	4.0	11.4	2.7	3.6
	Total primary com- modities ¹	41,966	100.0	39.9	19.0	12.6	7.5	3.7	11.0	2.7	3.6
	Total other com- modities ²	2,283	100.0	26.2	26.1	9.3	7.5	8.7	17.2	1.8	3.2
	Selected Primary Commodities ³										
207	Confectionery and related products.....	3,178	100.0	14.4	9.9	11.5	10.9	7.2	25.3	7.9	12.9
208	Beverages and flavoring extracts.....	36,921	100.0	43.2	20.0	12.7	7.0	3.1	9.4	2.1	2.5
2082	Malt liquors.....	15,979	100.0	35.2	25.9	13.9	7.1	4.2	12.1	1.3	.3
2085	Distilled, rectified, and blended liquors (except brandy and brandy spirits).....	2,700	100.0	17.0	10.1	15.0	11.9	8.1	22.2	7.0	8.7
2086	Bottled and canned soft drinks and carbonated, mineral, and plain waters.....	9,121	100.0	86.8	10.1	1.8	.5	.3	.4	-	.1
2087	Miscellaneous flavoring extracts, syrups, and flavoring compounds (ex- cept chocolate syrups)..	5,476	100.0	26.2	16.2	31.9	15.9	1.5	3.7	4.1	.5
211	Cigarettes.....	1,042	100.0	3.3	4.2	17.9	12.6	13.7	26.9	8.4	13.0
212	Cigars.....	89	100.0	37.7	15.1	6.5	1.8	2.4	17.6	8.7	10.2

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 207, 208, 211, 212, 213, and 214.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 7. Tons of Shipments—Means of Transport, Geographic Division of Origin, and Distance Shipped: 1963

Geographic division and distance	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
United States, total.....	44,249	100.0	22.3	29.8	45.7	-	1.9	0.2	0.1
Under 200 miles.....	25,829	100.0	7.3	24.7	66.6	-	1.2	.1	.1
200 to 399 miles.....	8,835	100.0	20.6	49.5	25.2	-	4.6	.1	-
400 to 599 miles.....	2,955	100.0	48.2	35.1	16.3	-	-	.2	.2
600 to 999 miles.....	3,848	100.0	70.7	22.1	5.4	-	1.0	.8	-
1,000 miles and over.....	2,782	100.0	73.7	20.0	2.0	-	3.7	.6	-
New England and Middle Atlantic.....	10,789	100.0	8.6	31.1	58.8	-	1.2	.2	.1
Under 200 miles.....	7,828	100.0	2.2	24.1	73.2	-	.2	.2	.1
200 to 399 miles.....	1,720	100.0	13.6	52.3	34.0	-	-	.1	-
400 to 999 miles.....	714	100.0	37.7	55.2	2.9	-	3.4	.8	-
1,000 miles and over.....	527	100.0	48.0	33.3	1.0	-	17.4	.3	-
East North Central and West North Central.....	15,583	100.0	34.0	16.0	49.6	-	-	.3	.1
Under 200 miles.....	8,247	100.0	9.4	14.3	76.1	-	-	.1	.1
200 to 399 miles.....	2,722	100.0	34.1	26.7	39.0	-	-	.2	-
400 to 599 miles.....	1,312	100.0	60.1	20.3	18.8	-	-	.3	.5
600 miles and over.....	3,302	100.0	85.0	9.9	4.3	-	-	.8	-
South Atlantic, East South Central and West South Central.....	12,525	100.0	19.1	45.9	30.2	-	4.7	.1	-
Under 200 miles.....	6,600	100.0	13.7	35.1	48.4	-	2.7	-	.1
200 to 399 miles.....	3,704	100.0	13.6	64.8	10.7	-	10.9	-	-
400 to 599 miles.....	1,009	100.0	38.9	47.3	13.8	-	-	-	-
600 miles and over.....	1,212	100.0	48.7	45.9	4.2	-	-	1.2	-
Mountain and Pacific ¹	5,352	100.0	23.7	29.9	43.9	-	2.5	-	-
Under 200 miles.....	3,154	100.0	.8	31.7	64.1	-	3.4	-	-
200 miles and over.....	2,198	100.0	56.7	27.4	14.6	-	1.2	.1	-

¹No data were obtained on shipments originating in Alaska and Hawaii.

CENSUS GEOGRAPHIC DIVISIONS

New England—Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut
Middle Atlantic—New York, New Jersey, Pennsylvania
East North Central—Ohio, Indiana, Illinois, Michigan, Wisconsin
West North Central—Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, Kansas
South Atlantic—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida
East South Central—Kentucky, Tennessee, Alabama, Mississippi
West South Central—Arkansas, Louisiana, Oklahoma, Texas
Mountain—Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada
Pacific—Washington, Oregon, California, Alaska, Hawaii

TABLE 8. Tons and Ton-Miles of Shipments—Means of Transport and Geographic Division of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
United States, total.....	44,249	100.0	22.3	29.8	45.7	-	1.9	0.2	0.1
Shipments originating from—									
New England.....	2,289	100.0	3.0	29.7	67.2	-	-	.1	-
Middle Atlantic.....	8,500	100.0	10.1	31.5	56.6	-	1.5	.2	.1
East North Central.....	10,654	100.0	33.8	19.2	46.6	-	-	.3	.1
West North Central.....	4,929	100.0	34.6	9.0	56.1	-	-	.2	.1
South Atlantic.....	8,822	100.0	17.0	52.3	23.8	-	6.6	.2	.1
East South Central.....	1,688	100.0	35.9	32.2	31.8	-	-	.1	-
West South Central.....	2,015	100.0	13.7	29.3	57.0	-	-	-	-
Mountain.....	5,352	100.0	23.7	29.9	43.9	-	2.5	-	-
Pacific ¹									
TON-MILES	(Millions of ton-miles)								
United States, total.....	13,615	100.0	53.5	27.5	15.6	-	2.8	.5	.1
Shipments originating from—									
New England.....	430	100.0	26.4	39.8	33.4	-	.4	-	-
Middle Atlantic.....	1,981	100.0	34.0	37.1	19.1	-	9.4	.4	-
East North Central.....	3,691	100.0	68.3	16.3	14.6	-	-	.8	-
West North Central.....	1,556	100.0	64.7	9.8	24.8	-	-	.5	.2
South Atlantic.....	2,260	100.0	36.4	52.2	4.4	-	6.4	.6	-
East South Central.....	651	100.0	58.4	28.8	12.6	-	-	.2	-
West South Central.....	639	100.0	15.4	54.3	30.3	-	-	-	-
Mountain.....	2,407	100.0	69.8	15.4	12.7	-	2.0	.1	-
Pacific ¹									

¹No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 9. Tons and Ton-Miles of Shipments—Geographic Division of Destination and of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by geographic division of destination									
		All divisions	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific ¹
TONS OF SHIPMENT	(Thousands of tons)										
United States, total....	44,249	100.0	7.3	21.2	19.9	9.0	17.7	4.0	6.7	2.4	11.8
Shipments originating from—											
New England.....	2,289	100.0	69.2	22.7	2.6	1.1	2.8	.1	-	-	1.5
Middle Atlantic.....	8,500	100.0	14.8	65.0	6.8	.8	8.0	.4	1.6	.4	2.2
East North Central.....	10,654	100.0	1.3	12.4	59.5	5.4	5.5	6.0	4.4	1.0	4.5
West North Central.....	4,929	100.0	.7	2.5	13.1	58.8	4.6	4.4	10.2	3.2	2.5
South Atlantic.....	8,822	100.0	1.5	16.1	7.7	1.4	67.5	2.1	1.2	.5	2.0
East South Central.....	1,688	100.0	2.0	8.9	15.3	5.2	17.0	37.9	6.2	3.4	4.1
West South Central.....	2,015	100.0	-	-	2.1	6.1	2.2	3.5	76.3	2.8	7.0
Mountain.....	5,352	100.0	1.1	5.3	2.8	1.2	.4	.2	2.4	11.3	75.3
Pacific ²											
TON-MILES	(Millions of ton-miles)										
United States, total....	13,615	100.0	5.3	18.2	12.8	7.2	14.6	3.4	10.5	5.3	22.7
Shipments originating from—											
New England.....	430	100.0	26.2	24.3	10.0	6.8	10.4	.3	.3	-	21.7
Middle Atlantic.....	1,981	100.0	11.2	22.7	12.9	2.9	14.3	1.1	8.4	3.2	23.3
East North Central.....	3,691	100.0	3.2	21.0	17.4	5.3	11.1	4.8	11.0	3.0	23.2
West North Central.....	1,556	100.0	2.5	7.5	11.3	24.4	11.1	6.1	18.1	7.6	11.4
South Atlantic.....	2,260	100.0	2.8	11.2	10.9	7.0	39.4	3.3	3.9	3.2	18.3
East South Central.....	651	100.0	4.2	12.5	8.5	6.7	17.3	8.1	11.1	11.2	20.4
West South Central.....	639	100.0	-	-	4.8	9.0	3.4	2.8	44.7	6.1	29.2
Mountain.....	2,407	100.0	6.1	28.8	12.1	2.2	2.1	.6	5.4	10.0	32.7
Pacific ²											

¹Shipments to Alaska and Hawaii from the 48 conterminous States and the District of Columbia are included.²No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 10. Tons and Ton-Miles of Shipments—Means of Transport and Employment Size of Establishment: 1963

Employment size of establishment	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
Total.....	44,249	100.0	22.3	29.8	45.7	-	1.9	0.2	0.1
Number of employees—									
Under 20 employees.....	2,010	100.0	.7	14.7	83.8	-	.4	.1	.3
20 to 99 employees.....	9,517	100.0	3.0	50.4	40.2	-	6.2	.2	-
100 to 499 employees.....	16,956	100.0	26.1	25.1	47.2	-	1.2	.3	.1
500 employees and over.....	15,766	100.0	32.8	24.4	42.4	-	.3	.1	-
TON-MILES	(Millions of ton-miles)								
Total.....	13,615	100.0	53.5	27.5	15.6	-	2.8	.5	.1
Number of employees—									
Under 20 employees.....	205	100.0	14.6	17.2	54.8	0.1	9.9	1.4	2.0
20 to 99 employees.....	1,861	100.0	11.6	66.1	12.8	-	8.6	.9	-
100 to 499 employees.....	5,411	100.0	58.2	22.8	15.5	-	2.9	.6	-
500 employees and over.....	6,138	100.0	63.5	20.4	15.3	-	.7	.1	-

TABLE 11. Tons of Shipments—Distance Shipped and Employment Size of Establishment: 1963

Employment size of establishment	Tons (thousands)	Percent distribution by distance of shipment								
		All distances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
Total tons.....	44,249	100.0	39.1	19.3	12.4	7.5	4.0	11.4	2.7	3.6
Number of employees—										
Under 20 employees.....	2,010	100.0	77.6	17.4	1.6	.6	.1	.6	.6	1.5
20 to 99 employees.....	9,517	100.0	44.8	20.0	17.7	9.6	2.4	3.3	1.1	1.1
100 to 499 employees.....	16,956	100.0	41.1	22.0	9.4	6.3	3.6	9.7	3.3	4.6
500 employees and over.....	15,766	100.0	28.6	16.3	13.9	8.4	6.0	19.3	3.2	4.3

TABLE 12. **Tons of Shipments—Distance Shipped and
Production Area of Origin: 1963**

Production Area of origin	Tons (thousands)	Percent distribution by distance of shipment							
		All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
United States, total.....	44,249	100.0	39.1	19.3	12.4	11.5	11.4	2.7	3.6
Production Areas ¹ —									
1.....	1,663	100.0	50.5	26.9	10.3	3.8	4.0	2.3	2.2
3.....	3,220	100.0	64.1	17.7	4.4	4.9	2.9	1.7	4.3
4.....	924	100.0	41.4	26.6	17.5	6.1	4.6	3.1	.7
5.....	1,441	100.0	43.2	6.9	31.0	12.3	5.3	.5	.8
15.....	2,752	100.0	66.7	7.2	3.0	4.2	8.2	1.1	9.6
Balance of Production Areas.....	15,681	100.0	30.0	18.2	19.2	16.2	11.8	3.1	1.5
SMSA's outside Production Areas.	7,518	100.0	20.9	33.4	11.9	14.6	14.2	2.7	2.3
Balance of United States.....	11,050	100.0	47.8	14.6	5.4	8.1	14.5	3.0	6.6

¹For description of Production Areas, see map in appendix C.

TABLE 13. **Tons and Ton-Miles of Shipments—Area of Destination
and of Origin: 1963**

Area of origin	Tons and ton-miles	Percent distribution by area of destination			
		All areas of destination	Production Areas	SMSA's outside Production Areas	Areas outside SMSA's
TONS OF SHIPMENTS	(Thousands of tons)				
United States, total.....	44,249	100.0	41.4	22.7	35.9
In Production Areas.....	25,681	100.0	50.7	20.8	28.5
In SMSA's outside Production Areas.....	7,518	100.0	22.9	36.7	40.4
Outside of SMSA's.....	11,050	100.0	32.2	17.7	50.1
TON-MILES	(Millions of ton- miles)				
United States, total.....	13,615	100.0	49.1	27.1	23.8
In Production Areas.....	7,094	100.0	44.8	27.7	27.5
In SMSA's outside Production Areas.....	2,409	100.0	37.9	38.9	23.2
Outside of SMSA's.....	4,112	100.0	63.1	19.2	17.7

Shipper Group 4

Textile Mill and Leather Products

Data for Shipper Group 4 are based on a probability sample of 44,525 shipments reported by 337 establishments. The shipper group has been divided into four subgroups which can be closely related to industries classified in the Standard Industrial Classification (SIC). (This is the system of industrial classification developed over a period of years by experts on classification in government and private industry under the guidance of the Bureau of the Budget.) The subgroup and related SIC industries are as follows:

Shipper Subgroup 041.—Broad-woven fabrics

- SIC 2211.—Broad-woven fabric mills, cotton
- SIC 2221.—Broad-woven fabric mills, man-made fiber and silk
- SIC 2231.—Broad-woven fabric mills, wool: including dyeing and finishing
- SIC 2261.—Finishers of broad-woven fabrics of cotton
- SIC 2262.—Finishers of broad-woven fabrics of man-made fiber and silk

Shipper Subgroup 042.—Other basic textiles

- SIC 2241.—Narrow fabrics and other small-warens mills: cotton, wool, silk, and man-made fiber
- SIC 2256.—Knit fabric mills
- SIC 2269.—Dyeing and finishing textiles, n.e.c.
- SIC 2271.—Woven carpets and rugs
- SIC 2272.—Tufted carpets and rugs
- SIC 2279.—Carpets, rugs, and mats, n.e.c.
- SIC 2281.—Yarn spinning mills, cotton, man-made fibers and silk
- SIC 2282.—Yarn throwing, twisting, and winding mills, cotton, man-made fibers and silk
- SIC 2283.—Yarn mills, wool, including carpet and rug yarn
- SIC 2284.—Thread mills
- SIC 2291.—Felt goods, except woven felts and hats
- SIC 2292.—Lace goods
- SIC 2293.—Paddings and upholstery filling
- SIC 2294.—Processed waste and recovered fibers and flock
- SIC 2295.—Artificial leather, oilcloth, and other impregnated and coated fabrics except rubberized
- SIC 2296.—Tire cord and fabric
- SIC 2297.—Wool scouring, worsted combing and tow to top mills
- SIC 2298.—Cordage and twine
- SIC 2299.—Textile goods, n.e.c.

- Shipper Subgroup 043.—Footwear, except rubber
- SIC 3141.—Footwear, except house slippers and rubber footwear
- SIC 3142.—House slippers

Shipper Subgroup 044.—Leather and leather products, except clothing

- SIC 3111.—Leather tanning and finishing
- SIC 3121.—Industrial leather belting and packing
- SIC 3131.—Boot and shoe cut stock and findings
- SIC 3151.—Leather dress, semidress, and work gloves
- SIC 3161.—Luggage
- SIC 3171.—Women's handbags and purses
- SIC 3172.—Personal leather goods, except handbags and purses
- SIC 3199.—Leather goods, n.e.c.

Commodities primary to these industries are classified in the following Transportation Commodity Classifications (TCC):¹

- TCC 221.—Cotton broad-woven fabrics
- TCC 222.—Man-made fiber and silk broad-woven fabrics
- TCC 223.—Wool broad-woven fabrics
- TCC 224.—Narrow fabrics
- TCC 225.—Knit fabrics
- TCC 227.—Carpets, rugs, and mats, textile
- TCC 228.—Thread and yarn (cotton, wool, silk, and man-made fiber)
- TCC 229.—Miscellaneous basic textiles
- TCC 311.—Leather, tanned and finished
- TCC 312.—Industrial leather belting and packing
- TCC 313.—Boot and shoe cut stock and findings, all materials
- TCC 314.—Footwear (except rubber)
- TCC 315.—Leather gloves and mittens, all leather
- TCC 316.—Luggage and handbags, all materials, and other personal leather goods.
- TCC 319.—Miscellaneous leather goods

Data for these commodities are included in the Commodity Series chapters: Commodity Group 22, Basic Textiles, and Commodity Group 31, Leather and Leather Products.

¹See *Commodity Classification for Transportation Statistics, 1963, Executive Office of the President, Bureau of the Budget.*

Because the data are based on a probability sample, they are subject to sampling variability. The term "sampling variability" refers to the differences that would be expected between results of a sample survey and results that would have been obtained from a

complete enumeration of plants and shipping documents. Estimates of sampling variability for Shipper Group 4 on total tons and on key items, are shown below:

Item	Estimated tons based on sample (thousands)	Sampling vari- ability (percent)
Total tons.....	12,609	16.9
SHIPPER SUBGROUPS		
041 Broad-woven fabrics.....	5,479	17.9
042 Other basic textiles.....	5,662	23.6
043 Footwear, except rubber.....	591	18.7
044 Leather and leather products, except clothing.....	877	20.0
MEANS OF TRANSPORT		
Rail.....	1,699	29.3
Motor carrier.....	8,246	19.7
Private truck.....	2,396	8.9
Other.....	268	11.9
ORIGIN OF SHIPMENT (Geographic Division)		
New England.....	1,629	19.8
Middle Atlantic.....	1,466	22.0
East North Central.....	870	55.1
West North Central.....	34	47.1
South Atlantic.....	6,717	29.3
East South Central.....	1,589	48.7
West South Central.....	275	36.0
Mountain and Pacific.....	29	58.6

TABLE 1. Tons and Ton-Miles of Shipments—Means of Transport and Shipper Subgroup: 1963

Shipper subgroup	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
4 Basic textiles and leather.....	12,609	100.0	13.5	65.3	19.0	0.1	0.1	1.8	0.2
041 Broad-woven fabrics.....	5,479	100.0	14.5	63.7	20.3	.1	.1	1.2	.1
042 Other basic textiles.....	5,662	100.0	11.6	68.2	19.0	-	.1	.8	.3
043 Footwear, except rubber.....	591	100.0	.8	76.8	14.4	.2	.2	7.5	.1
044 Leather and leather products, except clothing.....	877	100.0	27.9	49.5	13.7	.3	.4	8.0	.2
TON-MILES	(Millions of ton-miles)								
4 Basic textiles and leather.....	6,470	100.0	25.3	58.8	11.5	.1	.1	4.1	.1
041 Broad-woven fabrics.....	2,940	100.0	27.9	53.6	14.7	.2	-	3.6	-
042 Other basic textiles.....	2,834	100.0	23.9	64.8	8.9	-	.2	2.0	.2
043 Footwear except rubber.....	297	100.0	1.8	81.4	5.1	.6	.2	10.9	-
044 Leather and leather products, except clothing.....	399	100.0	33.3	37.5	11.0	.4	.3	17.4	.1

TABLE 2. Tons of Shipments—Means of Transport and Distance Shipped: 1963

Distance shipped ¹	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
All distances.....	12,609	100.0	13.5	65.3	19.0	0.1	0.1	1.8	0.2
Under 50 miles.....	999	100.0	10.4	47.0	40.6	-	.2	1.4	.4
50 to 99 miles.....	1,157	100.0	2.8	60.1	36.5	-	.1	.4	.1
100 to 199 miles.....	1,587	100.0	3.4	70.4	25.1	-	.2	.8	.1
200 to 299 miles.....	984	100.0	8.0	67.1	23.3	-	.1	1.3	.2
300 to 399 miles.....	1,450	100.0	7.6	69.0	22.0	-	.1	.8	.5
400 to 499 miles.....	1,336	100.0	10.9	77.1	11.2	.1	-	.7	-
500 to 599 miles.....	1,463	100.0	6.9	85.4	7.0	-	-	.5	.2
600 to 799 miles.....	1,803	100.0	26.1	60.7	11.4	.1	-	1.6	.1
800 to 999 miles.....	693	100.0	12.9	73.8	10.7	.2	-	2.4	-
1,000 to 1,199 miles.....	125	100.0	19.4	67.1	5.3	.1	2.3	5.7	.1
1,200 to 1,499 miles.....	162	100.0	20.3	38.1	35.7	.6	.2	5.1	-
1,500 to 1,999 miles.....	371	100.0	46.6	38.3	.3	.1	.1	14.6	-
2,000 miles or more.....	479	100.0	59.3	26.7	5.0	.4	.2	8.4	-

NOTE: Percent distributions by ton-miles are about the same as those for tons because data are grouped in mileage blocks.

¹Distances of shipments to foreign destinations are calculated only to the American port of exit.

TABLE 3. Tons and Ton-Miles of Shipments—Means of Transport and Weight: 1963

Weight	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
Total.....	18,935	100.0	11.5	72.2	14.0	0.1	0.1	1.9	0.2
Shipments—									
Under 1,000 pounds.....	1,615	100.0	4.2	80.8	8.0	.3	.3	6.3	.1
Under 50 pounds.....	50	100.0	4.9	24.5	4.6	.9	—	65.0	.1
50 to 99 pounds.....	98	100.0	5.6	66.7	7.2	.7	—	19.8	—
100 to 199 pounds.....	221	100.0	5.3	82.8	6.2	.5	.2	4.8	.2
200 to 499 pounds.....	582	100.0	4.5	82.1	9.5	.3	.2	3.3	.1
500 to 999 pounds.....	664	100.0	3.4	85.1	7.5	.2	.5	3.1	.2
1,000 to 9,999 pounds.....	3,384	100.0	2.4	84.9	11.3	—	.2	1.1	.1
1,000 to 1,999 pounds.....	847	100.0	3.0	86.5	8.5	.1	.2	1.5	.2
2,000 to 2,999 pounds.....	607	100.0	1.6	87.3	9.0	.1	.4	1.6	—
3,000 to 4,999 pounds.....	739	100.0	2.4	84.8	11.9	—	.2	.7	—
5,000 to 9,999 pounds.....	1,191	100.0	2.3	82.6	14.2	—	—	.7	.2
10,000 to 29,999 pounds.....	1,914	100.0	6.9	64.4	27.5	—	.1	.5	.6
30,000 pounds and over.....	2,022	100.0	36.7	51.5	10.7	—	—	1.0	.1
TON-MILES	(Millions of ton- miles)								
Total.....	14,511	100.0	20.5	66.4	8.0	.2	.2	4.6	.1
Shipments—									
Under 1,000 pounds.....	888	100.0	9.1	75.6	2.7	.8	.3	11.4	.1
Under 50 pounds.....	32	100.0	8.3	22.7	1.6	1.5	.1	65.7	.1
50 to 99 pounds.....	58	100.0	9.0	64.6	1.9	1.3	—	23.2	—
100 to 199 pounds.....	138	100.0	9.4	79.0	2.5	1.1	.2	7.7	.1
200 to 499 pounds.....	317	100.0	9.3	78.4	3.1	.8	.2	8.2	—
500 to 999 pounds.....	343	100.0	9.0	78.5	2.6	.5	.5	8.7	.2
1,000 to 9,999 pounds.....	1,502	100.0	6.0	83.6	6.0	.1	.3	3.9	.1
1,000 to 1,999 pounds.....	403	100.0	7.3	84.0	3.9	.2	.1	4.4	.1
2,000 to 2,999 pounds.....	269	100.0	2.5	85.2	3.7	.1	1.0	7.5	—
3,000 to 4,999 pounds.....	349	100.0	7.1	84.9	6.2	—	.5	1.3	—
5,000 to 9,999 pounds.....	481	100.0	6.2	81.5	8.9	—	—	3.3	.1
10,000 to 29,999 pounds.....	784	100.0	11.3	64.0	23.0	—	—	1.4	.3
30,000 pounds and over.....	1,337	100.0	49.8	42.2	5.0	—	—	2.9	.1

NOTE: Because of rounding, detail may not add to total.

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 4. **Tons of Shipments—Means of Transport,
Distance Shipped, and Weight: 1963**

Distance and weight	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS									
Total.....	18,935	100.0	11.5	72.2	14.0	0.1	0.1	1.9	0.2
Under 200 miles.....	2,684	100.0	5.8	70.9	22.3	-	.2	.5	.3
Under 1,000 pounds.....	521	100.0	1.0	78.1	17.9	-	.4	2.4	.2
1,000 to 9,999 pounds.....	1,165	100.0	.7	76.3	22.3	-	.3	.1	.3
10,000 pounds and over.....	998	100.0	14.2	60.7	24.8	-	-	-	.3
200 to 399 miles.....	1,505	100.0	6.1	68.6	23.4	-	.1	1.2	.6
Under 1,000 pounds.....	241	100.0	1.7	83.3	7.1	-	.2	7.6	.1
1,000 pounds and over.....	1,264	100.0	6.9	65.8	26.5	-	.1	-	.7
400 to 599 miles.....	2,297	100.0	8.0	84.4	6.8	.1	-	.6	.1
Under 1,000 pounds.....	364	100.0	2.3	91.8	2.1	.2	.1	3.4	.1
1,000 pounds and over.....	1,933	100.0	9.1	83.0	7.7	.1	-	-	.1
600 miles and over.....	2,449	100.0	24.2	64.4	6.0	.2	.2	4.9	.1
Under 1,000 pounds.....	489	100.0	10.4	73.9	2.1	.9	.4	12.1	.2
1,000 pounds and over.....	1,960	100.0	27.6	62.2	7.0	-	.1	3.1	-

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 5. Tons and Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons and ton-miles	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
	TONS OF SHIPMENTS	(Thousands of tons)								
	Total products shipped.....	12,609	100.0	13.5	65.3	19.0	0.1	0.1	1.8	0.2
	Total primary commodities ¹ ..	9,728	100.0	12.0	63.5	22.2	.1	.1	2.0	.1
	Total other commodities ²	2,881	100.0	18.3	71.9	8.1	-	.2	1.2	.3
	Selected Primary Commodities ³									
221	Cotton broad-woven fabrics.....	3,988	100.0	17.4	64.8	16.6	-	.1	1.0	.1
222	Man-made fiber and silk broad-woven fabrics.....	780	100.0	2.4	65.4	31.2	.2	.1	.7	-
223	Wool broad-woven fabrics.....	291	100.0	1.0	77.9	18.9	-	-	2.2	-
224	Narrow fabrics.....	69	100.0	2.0	81.0	8.0	-	-	9.0	-
227	Carpets, rugs and mats, textile..	709	100.0	17.7	74.2	5.8	.1	-	2.1	.1
2279	Carpets, rugs and mats, textile, n.e.c.....	269	100.0	27.0	61.1	10.4	-	-	1.4	.1
228	Thread and yarn (cotton, wool, silk and man-made fiber).....	1,208	100.0	4.6	51.1	43.9	.1	-	.3	-
229	Miscellaneous basic textiles.....	1,386	100.0	12.0	57.8	29.4	-	.1	.2	.5
311	Leather, tanned and finished.....	286	100.0	3.0	56.6	36.2	.6	-	3.1	.5
314	Footwear (except rubber).....	589	100.0	.8	76.7	14.4	.2	.2	7.6	.1
316	Luggage and handbags, all materials, and other personal leather goods.....	190	100.0	23.9	51.1	1.1	.2	.2	23.5	-
	TON-MILES	(Millions of ton-miles)								
	Total.....	6,470	100.0	25.3	58.8	11.5	.1	.1	4.1	.1
	Total primary commodities ¹ ..	5,081	100.0	24.8	56.6	13.8	.2	.1	4.4	.1
	Total other commodities ²	1,389	100.0	27.1	66.8	2.9	-	.2	2.9	.1
	Selected Primary Commodities ³									
221	Cotton broad-woven fabrics.....	2,258	100.0	33.4	51.2	12.1	-	.1	3.1	.1
222	Man-made fiber and silk broad-woven fabrics.....	345	100.0	3.1	63.6	30.9	.3	-	2.1	-
223	Wool broad-woven fabrics.....	126	100.0	2.7	73.6	16.3	.2	-	7.2	-
224	Narrow fabrics.....	33	100.0	6.3	75.2	1.1	-	-	17.4	-
227	Carpets, rugs and mats, textile..	651	100.0	30.4	62.1	3.5	.1	-	3.8	.1
2279	Carpets, rugs and mats, textile, n.e.c.....	212	100.0	43.9	44.4	9.2	-	-	2.5	-
228	Thread and yarn (cotton, wool, silk and man-made fiber).....	433	100.0	17.7	59.0	21.9	.6	-	.8	-
229	Miscellaneous basic textiles.....	578	100.0	18.6	59.0	21.3	.1	.1	.5	.4
311	Leather, tanned and finished.....	106	100.0	8.3	41.4	40.5	.8	.1	8.6	.3
314	Footwear (except rubber).....	297	100.0	1.8	81.3	5.1	.6	.2	11.0	-
316	Luggage and handbags, all materials, and other personal leather goods.....	161	100.0	42.3	27.5	-	.2	.4	29.6	-

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 221, 222, 223, 224, 225, 227, 228, 229, 311, 312, 313, 314, 315, 316, and 319.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 6. Tons of Shipments—Distance Shipped and
Commodity: 1963

TCC code	Commodity	Tons (thousands)	Percent distribution by distance of shipment								
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
	Total products shipped.	12,609	100.0	17.1	12.6	7.8	11.5	10.6	31.4	2.3	6.7
	Total primary com- modities ¹	9,728	100.0	15.6	14.1	8.2	13.3	8.0	31.2	2.8	6.8
	Total other com- modities ²	2,881	100.0	22.0	7.5	6.3	5.4	19.2	32.3	.6	6.7
	Selected Primary Commodities ³										
221	Cotton broad-woven fabrics.	3,988	100.0	9.4	13.1	8.6	17.1	9.6	32.0	3.3	6.9
222	Man-made fiber and silk broad-woven fabrics.....	780	100.0	17.8	25.1	3.7	4.3	7.2	37.9	.5	3.5
223	Wool broad-woven fabrics...	291	100.0	9.6	18.7	7.0	25.4	13.7	19.4	1.9	4.3
224	Narrow fabrics.....	69	100.0	18.5	28.6	7.0	1.5	17.3	17.9	1.8	7.4
227	Carpets, rugs and mats, textile.....	709	100.0	2.3	5.7	5.3	5.2	4.5	48.0	4.9	24.1
2279	Carpets, rugs and mats, textile, n.e.c.....	269	100.0	4.4	7.9	7.0	9.5	5.3	43.1	7.0	15.8
228	Thread and yarn (cotton, wool, silk and man-made fiber).....	1,208	100.0	35.0	12.9	12.4	5.0	10.7	19.6	.5	3.9
229	Miscellaneous basic textiles.....	1,386	100.0	18.7	10.5	4.0	23.8	3.5	36.1	1.4	2.0
311	Leather, tanned and finished	286	100.0	24.1	21.3	5.7	6.3	13.1	26.9	1.7	.9
314	Footwear (except rubber)...	589	100.0	21.8	20.7	11.3	6.3	4.7	21.0	7.0	7.2
316	Luggage and handbags, all materials, and other personal leather goods....	190	100.0	13.0	15.7	7.7	5.3	3.7	24.6	9.0	21.0

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 221, 222, 223, 224, 225, 227, 228, 229, 311, 312, 313, 314, 315, 316, and 319.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 7. Tons of Shipments—Means of Transport, Geographic Division of Origin, and Distance Shipped: 1963

Geographic division and distance	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
United States, total.....	12,609	100.0	13.5	65.3	19.0	0.1	0.1	1.8	0.2
Under 200 miles.....	3,743	100.0	5.1	60.9	32.8	-	.2	.8	.2
200 to 399 miles.....	2,434	100.0	7.7	68.3	22.5	-	.1	1.0	.4
400 to 599 miles.....	2,799	100.0	8.8	81.4	9.0	.1	-	.6	.1
600 to 999 miles.....	2,496	100.0	22.4	64.5	11.2	.1	-	1.8	-
1,000 miles and over.....	1,137	100.0	45.1	36.6	7.9	.3	.4	9.7	-
New England and Middle Atlantic.....	3,095	100.0	5.8	72.8	17.2	.2	.3	3.4	.3
Under 200 miles.....	1,281	100.0	.8	78.5	19.2	-	.2	1.2	.1
200 to 399 miles.....	618	100.0	4.7	65.5	26.6	-	.3	1.8	1.1
400 to 599 miles.....	223	100.0	2.7	76.0	16.8	.8	-	3.7	-
600 to 999 miles.....	701	100.0	8.4	76.3	10.9	.2	-	4.2	-
1,000 miles and over.....	272	100.0	27.3	52.9	2.8	1.0	1.4	14.6	-
East North Central and West North Central.....	904	100.0	39.2	50.0	8.0	-	-	2.7	.1
Under 400 miles.....	415	100.0	25.2	60.1	12.4	-	-	2.1	.2
400 miles and over.....	489	100.0	51.1	41.4	4.3	-	-	3.2	-
South Atlantic, East South Central and West South Central.....	8,581	100.0	13.6	64.3	20.9	-	-	1.1	.1
Under 200 miles.....	2,265	100.0	4.5	53.6	41.0	-	.1	.6	.2
200 to 399 miles.....	1,582	100.0	8.4	66.9	24.3	-	-	.3	.1
400 to 599 miles.....	2,451	100.0	8.3	82.7	8.7	-	-	.2	.1
600 to 999 miles.....	1,576	100.0	26.3	61.5	11.5	-	-	.6	.1
1,000 miles and over.....	707	100.0	43.9	35.0	11.7	.1	.1	9.2	-
Mountain and Pacific ¹	29	100.0	6.0	77.1	1.2	.4	8.6	6.7	-

¹Insufficient number of observations to distribute by mileage block. No data were obtained on shipments originating in Alaska and Hawaii.

CENSUS GEOGRAPHIC DIVISIONS

New England—Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut

Middle Atlantic—New York, New Jersey, Pennsylvania

East North Central—Ohio, Indiana, Illinois, Michigan, Wisconsin

West North Central—Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, Kansas

South Atlantic—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida

East South Central—Kentucky, Tennessee, Alabama, Mississippi

West South Central—Arkansas, Louisiana, Oklahoma, Texas

Mountain—Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada

Pacific—Washington, Oregon, California, Alaska, Hawaii

TABLE 8. Tons and Ton-Miles of Shipments—Means of Transport and Geographic Division of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
United States, total.....	12,609	100.0	13.5	65.3	19.0	0.1	0.1	1.8	0.2
Shipments originating from—									
New England.....	1,629	100.0	5.4	77.5	15.9	.1	.1	.9	.1
Middle Atlantic.....	1,466	100.0	6.2	67.7	18.7	.3	.5	6.1	.5
East North Central.....	870	100.0	40.7	50.8	6.1	-	-	2.3	.1
West North Central.....	34	100.0	1.9	29.8	55.7	-	-	12.6	-
South Atlantic.....	6,717	100.0	10.6	66.2	21.8	-	-	1.2	.2
East South Central.....	1,589	100.0	26.2	64.2	8.5	-	-	1.1	-
West South Central.....	275	100.0	13.9	17.2	68.8	-	-	.1	-
Mountain.....	29	100.0	6.0	77.1	1.2	.4	8.6	6.7	-
Pacific ¹									
TON-MILES	(Millions of ton-miles)								
United States, total.....	6,470	100.0	25.3	58.8	11.5	.1	.1	4.1	.1
Shipments originating from—									
New England.....	793	100.0	10.8	75.6	11.5	.3	.1	1.7	-
Middle Atlantic.....	667	100.0	19.0	54.4	10.0	.8	.7	14.8	.3
East North Central.....	539	100.0	57.1	36.9	3.3	-	-	2.7	-
West North Central.....	13	100.0	4.1	53.0	15.7	-	-	27.2	-
South Atlantic.....	3,555	100.0	23.8	59.5	13.5	-	.1	3.0	.1
East South Central.....	791	100.0	31.0	59.9	5.8	-	-	3.3	-
West South Central.....	94	100.0	20.4	35.4	44.0	-	-	.2	-
Mountain.....	18	100.0	16.1	76.8	-	.6	.9	5.6	-
Pacific ¹									

¹No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 9. Tons and Ton-Miles of Shipments—Geographic Division of Destination and of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by geographic division of destination									
		All divisions	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific ¹
TONS OF SHIPMENTS	(Thousands of tons)										
United States, total.....	12,609	100.0	10.0	25.2	13.2	3.9	29.1	7.1	4.8	0.4	6.3
Shipments originating from—											
New England.....	1,629	100.0	34.3	20.8	18.6	2.4	16.6	2.3	2.1	.4	2.5
Middle Atlantic.....	1,466	100.0	9.6	38.1	7.8	2.4	28.0	6.3	1.9	.8	5.1
East North Central.....	870	100.0	10.8	18.4	40.3	9.8	2.5	.5	1.3	.6	15.8
West North Central.....	34	100.0	1.8	5.2	6.0	68.0	3.2	1.6	2.4	3.0	8.8
South Atlantic.....	6,717	100.0	6.0	26.2	9.8	3.2	34.5	8.6	4.2	.3	7.2
East South Central.....	1,589	100.0	4.1	22.4	14.0	4.4	39.5	7.3	5.9	.4	2.0
West South Central.....	275	100.0	.2	2.1	6.0	7.6	2.1	22.8	55.4	.7	3.1
Mountain.....	29	100.0	1.7	7.7	6.4	4.1	.4	.4	7.9	6.5	64.9
Pacific ²											
TON-MILES	(Millions of ton-miles)										
United States, total.....	6,470	100.0	7.8	21.7	12.6	4.9	14.4	5.0	6.9	1.4	25.3
Shipments originating from—											
New England.....	793	100.0	5.8	10.4	27.9	5.5	24.4	4.3	6.4	1.8	13.5
Middle Atlantic.....	667	100.0	4.4	9.1	9.5	4.9	25.5	10.4	5.4	3.3	27.5
East North Central.....	539	100.0	14.3	17.1	11.4	5.9	2.3	.4	2.1	1.4	45.1
West North Central.....	13	100.0	5.1	11.7	5.5	22.4	6.4	1.7	3.4	6.9	36.9
South Atlantic.....	3,555	100.0	8.1	25.0	9.7	4.4	9.9	5.3	7.9	.9	28.8
East South Central.....	791	100.0	7.4	34.4	13.3	4.5	24.8	2.0	5.0	1.2	7.4
West South Central.....	94	100.0	1.0	8.4	13.9	11.7	4.8	15.7	29.8	1.4	13.3
Mountain.....	18	100.0	7.3	22.3	16.8	5.6	1.1	.8	12.9	5.1	28.1
Pacific ²											

¹Shipments to Alaska and Hawaii from the 48 conterminous States and the District of Columbia are included.²No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 10. **Tons and Ton-Miles of Shipments—Means of Transport and Employment Size of Establishment: 1963**

Employment size of establishment	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
Total.....	12,609	100.0	13.5	65.3	19.0	0.1	0.1	1.8	0.2
Number of employees—									
Under 20 employees.....	228	100.0	5.2	63.6	27.4	-	-	3.8	-
20 to 99 employees.....	2,284	100.0	4.0	81.6	12.0	.1	.3	1.7	.3
100 to 499 employees.....	4,392	100.0	10.1	62.8	25.1	.1	.1	1.6	.2
500 employees and over.....	5,705	100.0	20.2	61.0	16.8	-	-	1.9	.1
TON-MILES	(Millions of ton-miles)								
Total.....	6,470	100.0	25.3	58.8	11.5	.1	.1	4.1	.1
Number of employees—									
Under 20 employees.....	90	100.0	22.5	68.7	1.3	-	-	7.5	-
20 to 99 employees.....	1,013	100.0	8.1	79.5	7.9	.4	.3	3.6	.2
100 to 499 employees.....	1,826	100.0	15.1	65.7	14.6	.2	.1	4.2	.1
500 employees and over.....	3,541	100.0	35.5	48.9	11.2	.1	.1	4.1	.1

TABLE 11. **Tons of Shipments—Distance Shipped and Employment Size of Establishment: 1963**

Employment size of establishment	Tons (thousands)	Percent distribution by distance of shipment								
		All distances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
Total tons.....	12,609	100.0	17.1	12.6	7.8	11.5	10.6	31.4	2.3	6.7
Number of employees—										
Under 20 employees.....	228	100.0	32.2	19.2	9.3	8.4	3.6	18.0	4.0	5.3
20 to 99 employees.....	2,284	100.0	19.3	7.3	2.8	13.8	21.0	32.0	.8	3.0
100 to 499 employees.....	4,392	100.0	23.1	18.4	10.2	7.6	7.8	27.9	1.5	3.5
500 employees and over.....	5,705	100.0	11.0	10.0	7.9	13.7	8.9	34.4	3.3	10.8

TABLE 12. Tons of Shipments—Distance Shipped and
Production Area of Origin: 1963

Production Area of origin	Tons (thousands)	Percent distribution by distance of shipment							
		All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
TONS OF SHIPMENTS									
Total.....	12,609	100.0	17.1	12.6	7.8	22.1	31.4	2.3	6.7
Production Areas ¹ —									
1.....	628	100.0	31.0	16.5	10.1	2.7	34.9	2.3	2.5
3.....	158	100.0	19.0	14.7	6.9	11.9	20.9	9.9	16.7
4.....	221	100.0	49.2	11.3	6.5	5.5	16.7	2.5	8.3
5.....	444	100.0	18.8	2.8	5.7	54.0	13.6	.5	4.6
8.....	282	100.0	11.9	44.3	5.4	19.5	11.0	2.9	5.0
Balance of Production Areas.....	1,343	100.0	20.4	10.5	11.0	14.5	29.1	1.5	13.0
SMSA's outside Production Areas.	2,781	100.0	7.4	13.6	7.6	29.6	29.3	3.7	8.8
Balance of United States.....	6,752	100.0	18.1	11.6	7.3	21.2	35.1	1.7	5.0

¹For description of Production Areas, see map in appendix C.

TABLE 13. Tons and Ton-Miles of Shipments—Area of Destination
and of Origin: 1963

Area of origin	Tons and ton-miles	Percent distribution by area of destination			
		All areas of destination	Production Areas	SMSA's outside Production Areas	Areas outside SMSA's
TONS OF SHIPMENTS	(Thousands of tons)				
United States, total.....	12,609	100.0	45.6	19.0	35.4
In Production Areas.....	3,076	100.0	54.0	19.2	26.8
In SMSA's outside Production Areas.....	2,781	100.0	43.0	23.3	33.7
Outside of SMSA's.....	6,752	100.0	42.9	17.2	39.9
TON-MILES	(Millions of ton- miles)				
United States, total.....	6,470	100.0	53.1	21.5	25.4
In Production Areas.....	1,546	100.0	42.6	32.6	24.8
In SMSA's outside Production Areas.....	1,666	100.0	52.2	21.1	26.7
Outside of SMSA's.....	3,258	100.0	58.4	16.5	25.1

Shipper Group 5 Apparel and Related Products

Data for Shipper Group 5 are based on a probability sample of 35,355 shipments reported by 280 establishments. The shipper group has been divided into four subgroups which can be closely related to industries classified in the Standard Industrial Classification (SIC). (This is the system of industrial classification developed over a period of years by experts on classification in government and private industry under the guidance of the Bureau of the Budget.) The subgroup and related SIC industries are as follows:

Shipper Subgroup 051.—Men's, youths', and boys' clothing

- SIC 2311.—Men's, youths', and boys' suits, coats and overcoats
- SIC 2321.—Men's, youths', and boys' shirts (except work shirts), collars, and nightwear
- SIC 2322.—Men's, youths', and boys' underwear
- SIC 2323.—Men's, youths', and boys' neckwear
- SIC 2327.—Men's, youths', and boys' separate trousers
- SIC 2328.—Work clothing
- SIC 2329.—Men's, youths', and boys' clothing, n.e.c.

Shipper Subgroup 052.—Women's, misses', girls' and infants' clothing

- SIC 2331.—Blouses, waists, and shirts
- SIC 2335.—Dresses
- SIC 2337.—Suits, skirts, and coats, except fur coats and raincoats
- SIC 2339.—Women's, misses', and juniors' outerwear, n.e.c.
- SIC 2341.—Women's, misses', children's, and infants' underwear and nightwear
- SIC 2342.—Corsets and allied garments
- SIC 2361.—Dresses, blouses, waists, and shirts
- SIC 2363.—Coats and suits
- SIC 2369.—Girls', children's, and infants' outerwear, n.e.c.

Shipper Subgroup 053.—Knitted clothing

- SIC 2251.—Full-fashioned hosiery mills
- SIC 2252.—Seamless hosiery mills
- SIC 2253.—Knit outerwear mills
- SIC 2254.—Knit underwear mills
- SIC 2259.—Knitting mills, n.e.c.

Shipper Subgroup 054.—Millinery, fur goods and miscellaneous fabricated textile products

- SIC 2351.—Millinery
- SIC 2352.—Men's and boys' hats and caps
- SIC 2371.—Fur goods
- SIC 2381.—Dress and work gloves, except knit and all leather
- SIC 2384.—Robes and dressing gowns
- SIC 2385.—Raincoats and other waterproof outer garments
- SIC 2386.—Leather and sheep lined clothing
- SIC 2387.—Apparel belts
- SIC 2389.—Apparel, n.e.c.
- SIC 2391.—Curtains and draperies
- SIC 2392.—Housefurnishings, except curtains and draperies
- SIC 2393.—Textile bags
- SIC 2394.—Canvas products
- SIC 2395.—Pleating, decorative and novelty stitching, and tucking for the trade
- SIC 2396.—Apparel findings and related products
- SIC 2397.—Schiffli machine embroideries
- SIC 2399.—Fabricated textile products, n.e.c.

Commodities primary to these industries are classified in the following Transportation Commodity Classifications (TCC):¹

- TCC 231.—Men's, youths', and boys' clothing
- TCC 233.—Women's, misses', girls', and infants' clothing
- TCC 235.—Millinery, caps and hats
- TCC 237.—Fur goods
- TCC 238.—Miscellaneous apparel and accessories
- TCC 239.—Miscellaneous fabricated textile products

Data for these commodities are included in the Commodity Series chapter: Commodity Group 23, Apparel, Including Knit Apparel, and Other Finished Textile Products.

¹See *Commodity Classification for Transportation Statistics, 1963, Executive Office of the President, Bureau of the Budget.*

Because the data are based on a probability sample, they are subject to sampling variability. The term "sampling variability" refers to the differences that would be expected between results of a sample survey and results that would have been obtained from a

complete enumeration of plants and shipping documents. Estimates of sampling variability for Shipper Group 5 on total tons and on key items, are shown below:

Item	Estimated tons based on sample (thousands)	Sampling variability (percent)
Total tons.....	3,906	6.9
SHIPPER SUBGROUPS		
051 Men's, youths', and boys' clothing.....	865	11.7
052 Women's, misses', girls' and infants' clothing.....	1,153	14.4
053 Knitted clothing.....	529	24.4
054 Millinery, fur goods and miscellaneous fabricated textile products.....	1,359	19.9
MEANS OF TRANSPORT		
Rail.....	365	24.7
Motor carrier.....	2,421	6.0
Private truck.....	437	15.8
Air.....	40	15.0
Other.....	643	13.4
ORIGIN OF SHIPMENT (Geographic Division)		
New England.....	311	19.6
Middle Atlantic.....	1,139	12.8
East North Central.....	641	25.9
West North Central.....	75	49.3
South Atlantic.....	1,199	23.2
East South Central.....	270	21.9
West South Central.....	237	34.2
Mountain and Pacific.....	34	41.1

TABLE 1. **Tons and Ton-Miles of Shipments—Means of Transport and Shipper Subgroup: 1963**

Shipper subgroup	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
5 Apparel and related products.....	3,906	100.0	9.3	62.0	11.2	0.8	-	16.3	0.4
051 Men's, youths', and boys' clothing.....	865	100.0	1.7	67.9	15.8	.2	0.1	14.3	-
052 Women's, misses', girls' and infants' clothing.....	1,153	100.0	4.1	54.0	12.0	1.3	-	28.3	.3
053 Knitted clothing.....	529	100.0	.9	67.0	4.7	1.9	.1	23.8	1.6
054 Millinery, fur goods and miscellaneous fabricated textile products.....	1,359	100.0	21.9	63.1	10.1	.2	-	4.4	.3
TON-MILES	(Millions of ton-miles)								
5 Apparel and related products.....	2,183	100.0	10.0	62.1	6.7	1.5	.1	19.3	.3
051 Men's, youths', and boys' clothing.....	518	100.0	2.9	67.7	8.1	.3	.1	20.9	-
052 Women's, misses', girls' and infants' clothing.....	608	100.0	8.7	49.3	5.5	3.3	.1	32.6	.5
053 Knitted clothing.....	358	100.0	1.7	69.0	2.9	2.5	.1	22.8	1.0
054 Millinery, fur goods and miscellaneous fabricated textile products.....	699	100.0	20.7	65.4	8.7	.3	.1	4.7	.1

TABLE 2. **Tons of Shipments—Means of Transport and Distance Shipped: 1963**

Distance shipped ¹	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
All distances.....	3,906	100.0	9.3	62.0	11.2	0.8	-	16.3	0.4
Under 50 miles.....	259	100.0	17.9	39.6	29.8	.1	-	11.9	.7
50 to 99 miles.....	406	100.0	5.4	67.8	12.7	.1	-	13.8	.2
100 to 199 miles.....	503	100.0	2.4	65.6	18.1	-	0.1	13.5	.3
200 to 299 miles.....	343	100.0	8.9	70.6	6.5	.2	-	13.4	.4
300 to 399 miles.....	449	100.0	7.2	52.0	17.6	.1	-	21.7	1.4
400 to 499 miles.....	333	100.0	19.2	59.2	10.3	.4	.1	10.8	-
500 to 599 miles.....	297	100.0	14.2	70.9	1.7	.4	-	12.8	-
600 to 799 miles.....	490	100.0	9.4	63.7	9.2	2.2	.1	15.1	.3
800 to 999 miles.....	263	100.0	7.3	69.0	2.6	.9	-	19.7	.5
1,000 to 1,199 miles.....	153	100.0	3.9	59.1	4.2	2.1	-	30.3	.4
1,200 to 1,499 miles.....	85	100.0	4.9	49.1	7.8	1.4	.2	36.5	.1
1,500 to 1,999 miles.....	159	100.0	15.4	64.1	5.9	1.9	-	12.7	-
2,000 miles or more.....	166	100.0	9.2	61.5	1.5	2.8	.2	24.4	.4

Note: Percent distributions by ton-miles are about the same as those for tons because data are grouped in mileage blocks.

¹Distances of shipments to foreign destinations are calculated only to the American port of exit.

TABLE 3. Tons and Ton-Miles of Shipments—Means of Transport and Weight: 1963

Weight	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
Total.....	¹ 2,932	100.0	11.3	63.1	10.1	0.8	-	14.4	0.3
Shipments—									
Under 1,000 pounds.....	1,675	100.0	2.8	69.6	4.2	1.0	-	21.9	.5
Under 50 pounds.....	306	100.0	2.8	28.9	1.0	1.2	0.1	65.8	.2
50 to 99 pounds.....	220	100.0	2.9	69.4	3.8	2.1	-	21.5	.3
100 to 199 pounds.....	345	100.0	3.0	75.3	4.0	1.3	.1	16.1	.2
200 to 499 pounds.....	459	100.0	2.3	82.5	5.4	.6	-	8.4	.8
500 to 999 pounds.....	345	100.0	3.1	83.1	5.7	.6	-	6.9	.6
1,000 pounds and over.....	1,257	100.0	22.6	54.4	18.0	.5	-	4.5	-
TON-MILES	(Millions of ton-miles)								
Total.....	¹ 1,631	100.0	11.4	62.0	7.5	1.5	-	17.3	.3
Shipments—									
Under 1,000 pounds.....	1,021	100.0	5.4	62.8	4.5	1.9	.1	24.9	.4
Under 50 pounds.....	192	100.0	4.8	29.3	1.0	2.3	.1	62.3	.2
50 to 99 pounds.....	138	100.0	4.8	63.1	3.6	3.4	.1	24.7	.3
100 to 199 pounds.....	218	100.0	5.5	71.2	3.9	2.3	.1	16.9	.1
200 to 499 pounds.....	270	100.0	5.0	74.0	6.5	1.1	-	12.8	.6
500 to 999 pounds.....	203	100.0	6.9	70.7	6.1	1.0	-	14.5	.8
1,000 pounds and over.....	610	100.0	21.3	60.7	12.7	.8	-	4.5	-

NOTE: Because of rounding, detail may not add to total.

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 4. **Tons of Shipments—Means of Transport,
Distance Shipped, and Weight: 1963**

Distance and weight	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS									
Total.....	12,932	100.0	11.3	63.1	10.1	0.8	-	14.4	0.3
Under 200 miles.....	827	100.0	8.5	64.8	11.4	.1	-	14.8	.4
Under 1,000 pounds.....	490	100.0	.4	76.2	4.0	.1	-	18.6	.7
1,000 pounds and over.....	337	100.0	20.4	48.3	22.1	-	-	9.2	-
200 miles and over.....	2,105	100.0	12.4	62.4	9.6	1.1	-	14.3	.2
Under 1,000 pounds.....	1,185	100.0	3.8	66.9	4.2	1.4	0.1	23.2	.4
1,000 pounds and over.....	920	100.0	23.5	56.5	16.5	.7	-	2.8	-

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 5. Tons and Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons and ton-miles	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
	TONS OF SHIPMENTS	(Thousands of tons)								
	Total products shipped.....	3,906	100.0	9.3	62.0	11.2	0.8	-	16.3	0.4
	Total primary commodities ¹	3,232	100.0	4.2	63.8	11.4	.9	-	19.2	.5
	Total other commodities ²	674	100.0	33.9	52.8	10.3	.2	0.1	2.4	.3
	Selected Primary Commodities ³									
231	Men's, youths' and boys' clothing.....	953	100.0	2.0	67.4	15.8	.2	-	14.6	-
233	Women's, misses, girls' and infants' clothing.....	1,172	100.0	2.8	54.4	11.1	1.2	-	29.7	.8
238	Miscellaneous apparel and accessories.....	424	100.0	2.4	63.2	9.3	2.8	-	21.5	.8
2385	Raincoats and other waterproof outer garments.....	45	100.0	3.1	63.9	2.0	1.4	-	29.6	-
2389	Apparel, n.e.c.....	291	100.0	2.3	67.6	1.8	3.9	-	23.7	.7
239	Miscellaneous fabricated textile products.....	629	100.0	11.6	77.1	6.8	-	.1	4.2	.2
2392	Housefurnishings (except curtains, draperies, tapestries and lace and embroidered goods).....	409	100.0	17.2	71.8	8.5	-	-	2.5	-
	TON-MILES	(Millions of ton-miles)								
	Total	2,183	100.0	10.0	62.1	6.7	1.5	.1	19.3	.3
	Total primary commodities ¹	1,898	100.0	6.2	63.9	6.1	1.7	.1	21.7	.3
	Total other commodities ²	285	100.0	35.4	49.9	10.9	.3	-	2.9	.6
	Selected Primary Commodities ³									
231	Men's, youths' and boys' clothing.....	588	100.0	3.3	67.3	9.5	.3	.1	19.5	-
233	Women's, misses, girls' and infants' clothing.....	638	100.0	7.1	54.6	3.3	2.7	.1	31.6	.6
238	Miscellaneous apparel and accessories.....	263	100.0	3.4	61.5	3.1	4.5	-	26.7	.8
2385	Raincoats and other waterproof outer garments.....	22	100.0	7.1	53.4	3.6	2.1	-	33.8	-
2389	Apparel, n.e.c.....	218	100.0	3.3	61.7	2.6	5.2	-	26.4	.8
239	Miscellaneous fabricated textile products.....	369	100.0	11.7	76.2	7.7	-	.1	4.2	.1
2392	Housefurnishings (except curtains, draperies, tapestries and lace and embroidered goods).....	269	100.0	14.6	73.2	8.6	-	.1	3.5	-

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 231, 233, 235, 237, 238, and 239.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 6. Tons of Shipments—Distance Shipped and
Commodity: 1963

TCC code	Commodity	Tons (thousands)	Percent distribution by distance of shipment								
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
	Total products shipped.	3,906	100.0	17.0	12.9	8.8	11.5	8.5	26.9	6.1	8.3
	Total primary com- modities ¹	3,232	100.0	17.2	12.7	7.3	11.2	7.0	28.2	7.1	9.3
	Total other com- modities ²	674	100.0	16.1	13.6	16.1	12.9	16.0	20.1	1.5	3.7
	Selected Primary Commodities ³										
231	Men's, youths' and boys' clothing.....	953	100.0	13.4	11.2	8.4	12.8	9.3	27.2	7.9	9.8
233	Women's, misses, girls' and infants' clothing.....	1,172	100.0	20.7	16.6	5.9	12.4	5.4	23.7	6.8	8.5
238	Miscellaneous apparel and accessories.....	424	100.0	26.8	8.5	7.9	6.2	8.6	19.6	10.7	11.7
2385	Raincoats and other waterproof outer gar- ments.....	45	100.0	23.0	16.0	11.3	8.8	6.7	21.1	7.2	5.9
2389	Apparel, n.e.c.....	291	100.0	21.5	7.2	7.2	2.9	9.8	21.9	13.8	15.7
239	Miscellaneous fabricated textile products.....	629	100.0	10.7	11.1	7.8	10.3	5.2	43.1	3.9	7.9
2392	Housefurnishings (except curtains, draperies, tapestries and lace and embroidered goods).....	409	100.0	6.8	3.9	2.7	14.6	6.0	54.1	3.2	8.7

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 231, 233, 235, 237, 238, and 239.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 7. Tons of Shipments—Means of Transport, Geographic Division of Origin, and Distance Shipped: 1963

Geographic division and distance	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
United States, total.....	3,906	100.0	9.3	62.0	11.2	0.8	-	16.3	0.4
Under 200 miles.....	1,168	100.0	6.9	60.6	18.8	.1	-	13.2	.4
200 to 399 miles.....	792	100.0	7.9	60.1	12.8	.1	-	18.1	1.0
400 to 599 miles.....	630	100.0	16.9	64.8	6.2	.4	-	11.7	-
600 to 999 miles.....	753	100.0	8.7	65.5	6.9	1.8	0.1	16.6	.4
1,000 miles and over.....	563	100.0	8.9	59.7	4.4	2.1	.1	24.5	.3
New England and Middle Atlantic.....	1,450	100.0	2.2	59.1	6.7	1.1	.1	29.9	.9
Under 200 miles.....	621	100.0	.2	69.5	10.6	.1	.1	18.9	.6
200 to 399 miles.....	236	100.0	.6	42.8	8.1	.3	-	45.5	2.7
400 to 599 miles.....	123	100.0	1.6	63.1	1.4	.6	.2	33.0	.1
600 to 999 miles.....	221	100.0	5.1	54.5	3.0	4.7	.3	31.8	.6
1,000 miles and over.....	249	100.0	6.4	50.8	1.5	1.6	.2	39.1	.4
East North Central and West North Central.....	716	100.0	30.6	47.4	12.1	.4	-	9.0	.5
Under 200 miles.....	254	100.0	22.8	52.0	17.4	-	-	7.6	.2
200 to 399 miles.....	172	100.0	31.8	57.0	4.0	-	-	6.5	.7
400 miles and over.....	290	100.0	36.7	38.1	12.1	.9	-	11.6	.6
South Atlantic, East South Central, and West South Central.....	1,706	100.0	6.7	70.8	14.8	.3	-	7.4	-
Under 200 miles.....	288	100.0	7.4	48.8	37.9	-	-	5.9	-
200 to 399 miles.....	380	100.0	1.8	72.0	19.8	-	-	6.4	-
400 to 599 miles.....	365	100.0	11.5	76.3	5.3	.2	-	6.7	-
600 to 999 miles.....	426	100.0	4.7	77.4	8.4	.5	-	9.0	-
1,000 miles and over.....	247	100.0	9.5	75.0	5.4	1.1	-	9.0	-
Mountain and Pacific ¹	34	100.0	.8	49.5	.4	14.0	-	35.3	-

¹No data were obtained on shipments originating in Alaska and Hawaii. Insufficient number of observations to distribute by mileage block.

CENSUS GEOGRAPHIC DIVISIONS

New England—Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut
 Middle Atlantic—New York, New Jersey, Pennsylvania
 East North Central—Ohio, Indiana, Illinois, Michigan, Wisconsin
 West North Central—Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, Kansas
 South Atlantic—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida
 East South Central—Kentucky, Tennessee, Alabama, Mississippi
 West South Central—Arkansas, Louisiana, Oklahoma, Texas
 Mountain—Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada
 Pacific—Washington, Oregon, California, Alaska, Hawaii

TABLE 8. Tons and Ton-Miles of Shipments—Means of Transport and Geographic Division of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
United States, total.....	3,906	100.0	9.3	62.0	11.2	0.8	-	16.3	0.4
Shipments originating from—									
New England.....	311	100.0	.5	59.2	18.0	.6	0.1	20.8	.8
Middle Atlantic.....	1,139	100.0	2.7	59.1	3.6	1.3	.1	32.3	.9
East North Central.....	641	100.0	34.1	43.6	13.2	.4	-	8.2	.5
West North Central.....	75	100.0	.3	80.9	2.3	.3	-	16.2	-
South Atlantic.....	1,199	100.0	8.8	71.1	14.6	.3	-	5.2	-
East South Central.....	270	100.0	2.7	76.3	12.0	.2	-	8.8	-
West South Central.....	237	100.0	.4	63.1	19.3	.5	-	16.7	-
Mountain.....	34	100.0	.8	49.5	.4	14.0	-	35.3	-
Pacific ¹									
TON-MILES	(Millions of ton-miles)								
United States, total.....	2,183	100.0	10.0	62.1	6.7	1.5	.1	19.3	.3
Shipments originating from—									
New England.....	132	100.0	2.6	62.7	10.8	1.2	.2	22.1	.4
Middle Atlantic.....	644	100.0	5.9	49.8	1.4	2.1	.2	39.8	.8
East North Central.....	274	100.0	33.9	41.8	12.4	.8	-	10.4	.7
West North Central.....	24	100.0	.9	59.0	8.9	1.0	-	30.2	-
South Atlantic.....	758	100.0	10.4	76.1	7.9	.6	-	5.0	-
East South Central.....	159	100.0	2.9	83.2	4.0	.3	-	9.6	-
West South Central.....	153	100.0	.3	66.3	13.4	.8	-	19.2	-
Mountain.....	39	100.0	.9	31.0	-	23.8	-	44.3	-
Pacific ¹									

¹No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 9. Tons and Ton-Miles of Shipments—Geographic Division of Destination and of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by geographic division of destination									
		All divisions	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific ¹
TONS OF SHIPMENTS	(Thousands of tons)										
United States, total.....	3,906	100.0	6.7	23.8	25.1	8.3	15.9	5.3	5.5	2.5	6.9
Shipments originating from—											
New England.....	311	100.0	32.6	34.9	14.7	2.1	6.9	1.6	1.2	3.9	2.1
Middle Atlantic.....	1,139	100.0	6.4	37.8	22.5	5.7	10.0	2.9	6.4	2.0	6.3
East North Central.....	641	100.0	1.8	9.0	48.8	15.0	9.6	5.2	3.6	3.0	4.0
West North Central.....	75	100.0	1.3	2.6	15.6	62.5	.4	2.0	8.9	1.6	5.1
South Atlantic.....	1,199	100.0	4.7	21.2	21.5	4.7	27.6	5.6	3.9	2.0	8.8
East South Central.....	270	100.0	3.6	21.1	21.1	5.9	24.5	8.4	8.3	3.0	4.1
West South Central.....	237	100.0	3.5	7.7	13.7	15.6	10.1	17.5	15.4	2.7	13.8
Mountain.....	34	100.0	.7	8.3	10.2	4.2	8.0	5.2	12.5	10.3	40.6
Pacific ²											
TON-MILES	(Millions of ton-miles)										
United States, total.....	2,183	100.0	4.6	13.2	19.9	8.3	10.1	3.8	8.6	6.5	25.0
Shipments originating from—											
New England.....	132	100.0	6.7	14.7	25.2	5.6	10.4	3.4	4.1	16.9	13.0
Middle Atlantic.....	644	100.0	2.3	6.7	21.2	10.3	7.9	3.9	14.5	6.2	27.0
East North Central.....	274	100.0	3.3	10.0	23.7	12.2	14.3	4.6	6.4	7.9	17.6
West North Central.....	24	100.0	4.2	7.7	13.9	25.0	1.1	2.5	16.9	3.7	25.0
South Atlantic.....	758	100.0	5.9	16.7	18.7	5.9	9.6	3.1	5.2	5.1	29.8
East South Central.....	159	100.0	5.9	28.4	16.1	6.0	12.1	3.7	7.6	7.0	13.2
West South Central.....	153	100.0	7.3	12.4	15.4	7.8	12.5	4.8	6.0	3.6	30.2
Mountain.....	39	100.0	1.6	17.4	16.8	5.1	15.6	7.8	14.1	5.3	16.3
Pacific ²											

¹Shipments to Alaska and Hawaii from the 48 conterminous States and the District of Columbia are included.

²No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 10. **Tons and Ton-Miles of Shipments—Means of Transport and Employment Size of Establishment: 1963**

Employment size of establishment	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS		(Thousands of tons)							
Total.....	3,906	100.0	9.3	62.0	11.2	0.8	-	16.3	0.4
Number of employees--									
Under 20 employees.....	217	100.0	1.2	63.0	17.4	.9	-	17.4	.1
20 to 99 employees.....	1,000	100.0	4.0	68.0	11.5	1.3	0.1	14.5	.6
100 to 499 employees.....	1,845	100.0	6.2	66.1	13.7	.4	-	13.4	.2
500 employees and over.....	844	100.0	24.6	45.5	3.7	.8	.1	24.4	.9
TON-MILES		(Millions of ton-miles)							
Total.....	2,183	100.0	10.0	62.1	6.7	1.5	.1	19.3	.3
Number of employees--									
Under 20 employees.....	71	100.0	4.0	55.7	10.9	2.6	-	26.7	.1
20 to 99 employees.....	576	100.0	8.2	64.0	8.0	2.5	.1	16.8	.4
100 to 499 employees.....	1,013	100.0	7.4	68.7	7.8	.8	.1	15.1	.1
500 employees and over.....	523	100.0	17.8	48.1	2.7	1.6	-	29.1	.7

TABLE 11. **Tons of Shipments—Distance Shipped and Employment Size of Establishment: 1963**

Employment size of establishment	Tons (thousands)	Percent distribution by distance of shipment								
		All distances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
Total tons.....	3,906	100.0	17.0	12.9	8.8	11.5	8.5	26.9	6.1	8.3
Number of employees--										
Under 20 employees.....	217	100.0	42.9	10.6	14.6	5.1	3.9	17.8	3.0	2.1
20 to 99 employees.....	1,000	100.0	18.0	16.3	7.6	10.1	8.8	23.0	5.9	10.3
100 to 499 employees.....	1,845	100.0	15.3	13.7	8.3	10.2	6.9	31.8	7.0	6.8
500 employees and over.....	844	100.0	13.0	7.7	9.8	17.6	12.8	23.1	5.1	10.9

TABLE 12. Tons of Shipments—Distance Shipped and
Production Area of Origin: 1963

Production Area of origin	Tons (thousands)	Percent distribution by distance of shipment							
		All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
TONS OF SHIPMENTS									
Total.....	3,906	100.0	17.0	12.9	8.8	20.0	26.9	6.1	8.3
Production Areas ¹ —									
3.....	363	100.0	19.3	12.1	7.2	11.9	28.1	9.9	11.5
5.....	332	100.0	33.0	2.7	7.3	24.6	14.5	10.2	7.7
7.....	94	100.0	38.7	6.7	8.6	13.5	18.4	6.7	7.4
15.....	106	100.0	8.8	12.0	10.1	28.4	32.9	2.7	5.1
Balance of Production Areas.....	511	100.0	27.0	19.0	9.0	13.2	19.2	6.4	6.2
SMSA's outside Production Areas.	738	100.0	10.4	10.5	14.8	21.7	31.4	5.7	5.5
Balance of United States.....	1,762	100.0	12.7	14.6	6.7	21.9	29.5	4.8	9.8

¹For description of Production Areas, see map in appendix C.

TABLE 13. Tons and Ton-Miles of Shipments—Area of Destination
and of Origin: 1963

Area of origin	Tons and ton-miles	Percent distribution by area of destination			
		All areas of destination	Production Areas	SMSA's outside Production Areas	Areas outside SMSA's
TONS OF SHIPMENTS	(Thousands of tons)				
United States, total.....	3,906	100.0	55.8	23.6	20.6
In Production Areas.....	1,406	100.0	59.3	20.6	20.1
In SMSA's outside Production Areas.....	738	100.0	45.7	25.1	29.2
Outside of SMSA's.....	1,762	100.0	57.1	25.4	17.5
TON-MILES	(Millions of ton- miles)				
United States, total.....	2,183	100.0	56.4	25.5	18.1
In Production Areas.....	753	100.0	54.3	26.4	19.3
In SMSA's outside Production Areas.....	390	100.0	50.9	25.2	23.9
Outside of SMSA's.....	1,040	100.0	59.9	25.0	15.1

Shipper Group 6

Paper and Allied Products

Data for Shipper Group 6 are based on a probability sample of 43,835 shipments reported by 383 establishments. The shipper group has been divided into four subgroups which can be closely related to industries classified in the Standard Industrial Classification (SIC). (This is the system of industrial classification developed over a period of years by experts on classification in government and private industry under the guidance of the Bureau of the Budget.) The subgroup and related SIC industries are as follows:

Shipper Subgroup 061.—Pulp and paper, except building paper

SIC 2611.—Pulp mills

SIC 2621.—Paper mills, except building paper mills

Shipper Subgroup 062.—Building paper and boards, except insulating board

SIC 2631.—Paperboard mills

SIC 2661.—Building paper and building board mills

Shipper Subgroup 063.—Converted paper and paperboard products, except containers and boxes

SIC 2641.—Paper coating and glazing

SIC 2642.—Envelopes

SIC 2643.—Bags, except textile bags

SIC 2644.—Wallpaper

SIC 2645.—Die cut paper and paperboard; and cardboard

SIC 2646.—Pressed and molded pulp goods

SIC 2649.—Converted paper and paperboard products, n.e.c.

Shipper Subgroup 064.—Containers and boxes and similar products

SIC 2651.—Folding paperboard boxes

SIC 2652.—Set-up paperboard boxes

SIC 2653.—Corrugated and solid fiber boxes

SIC 2654.—Sanitary food containers

SIC 2655.—Fiber cans, tubes, drums, and similar products

Commodities primary to these industries are classified in the following Transportation Commodity Classifications (TCC):¹

TCC 261.—Pulp and pulp mill products

TCC 262.—Paper (except building paper)

TCC 263.—Paperboard, fiberboard, and pulpboard (except insulating board)

TCC 264.—Converted paper and paperboard products (except containers and boxes)

TCC 265.—Containers, boxes and related products, paperboard, fiberboard, and pulpboard

TCC 266.—Building paper and building board

Data for these commodities are included in the Commodity Series chapter: Commodity Group 26, Pulp, Paper, and Allied Products.

Because the data are based on a probability sample, they are subject to sampling variability. The term "sampling variability" refers to the differences that would be expected between results of a sample survey and results that would have been obtained from a complete enumeration of plants and shipping documents. Estimates of sampling variability for Shipper Group 6 on total tons and on key items, are shown below:

Item	Estimated tons based on sample (thousands)	Sampling variability (percent)
Total tons.....	65,551	6.3
SHIPPER SUBGROUPS		
061 Pulp and paper, except building paper.....	20,596	6.0
062 Building paper and boards, except insulating board.....	23,651	16.7
063 Converted paper and paperboard products, except containers and boxes.....	8,095	10.0
064 Containers and boxes and similar products.....	13,209	9.7
MEANS OF TRANSPORT		
Rail.....	32,675	6.7
Motor carrier.....	21,717	10.2
Private truck.....	9,100	19.3
Water.....	1,278	16.5
Other.....	781	20.6
ORIGIN OF SHIPMENT (Geographic Division)		
New England.....	4,368	15.6
Middle Atlantic.....	11,804	31.1
East North Central.....	15,149	11.7
West North Central.....	3,550	29.5
South Atlantic.....	12,402	5.8
East South Central.....	6,854	23.3
West South Central.....	3,789	7.2
Mountain and Pacific.....	7,635	16.8

¹ See *Commodity Classification for Transportation Statistics, 1963, Executive Office of the President, Bureau of the Budget.*

TABLE 1. Tons and Ton-Miles of Shipments—Means of Transport and Shipper Subgroup: 1963

Shipper subgroup	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS		(Thousands of tons)							
6 Paper and allied products.....	65,551	100.0	49.9	33.1	13.9	-	1.9	1.0	0.2
061 Pulp and paper, except building paper.....	20,596	100.0	68.9	22.5	3.0	-	3.5	1.8	.3
062 Building paper and boards except insulating board.....	23,651	100.0	54.1	28.8	14.4	-	2.3	.3	.1
063 Converted paper and paperboard products, except containers and boxes.....	8,095	100.0	38.6	45.1	14.7	0.1	-	1.2	.3
064 Containers and boxes and similar products.....	13,209	100.0	19.2	50.2	29.5	-	.1	.9	.1
TON-MILES		(Millions of ton-miles)							
6 Paper and allied products.....	26,849	100.0	70.9	20.7	4.6	-	2.4	1.3	.1
061 Pulp and paper, except building paper.....	11,160	100.0	79.1	13.1	1.8	-	4.0	1.8	.2
062 Building paper and boards except insulating board.....	9,573	100.0	75.9	17.1	4.8	-	2.0	.1	.1
063 Converted paper and paperboard products, except containers and boxes.....	3,262	100.0	56.4	36.9	4.3	.1	-	2.2	.1
064 Containers and boxes and similar products.....	2,854	100.0	38.4	44.0	15.1	-	.3	2.0	.2

TABLE 2. Tons of Shipments—Means of Transport and Distance Shipped: 1963

Distance shipped ¹	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
All distances.....	65,551	100.0	49.9	33.1	13.9	-	1.9	1.0	0.2
Under 50 miles.....	7,584	100.0	11.6	46.2	40.8	-	.2	1.1	.1
50 to 99 miles.....	7,003	100.0	17.6	45.2	32.5	-	3.5	.8	.4
100 to 199 miles.....	10,312	100.0	29.9	50.4	17.1	-	1.5	.8	.3
200 to 299 miles.....	8,842	100.0	47.4	38.6	11.4	-	2.1	.4	.1
300 to 399 miles.....	5,728	100.0	52.4	38.3	6.4	-	1.1	1.7	.1
400 to 499 miles.....	5,312	100.0	71.6	24.4	3.8	-	.1	.1	-
500 to 599 miles.....	3,964	100.0	72.3	22.3	2.8	-	2.1	.1	.4
600 to 799 miles.....	7,323	100.0	77.7	15.9	2.8	-	3.3	.3	-
800 to 999 miles.....	5,130	100.0	80.0	10.8	.5	-	4.1	4.4	.2
1,000 to 1,199 miles.....	1,965	100.0	90.4	6.5	1.6	-	.6	.7	.2
1,200 miles and over.....	2,388	100.0	86.0	9.8	.3	-	2.7	1.2	-

NOTE: Percent distributions by ton-miles are about the same as those for tons because data are grouped in mileage blocks.

¹Distances of shipments to foreign destinations are calculated only to the American port of exit.

TABLE 3. Tons and Ton-Miles of Shipments—Means of Transport and Weight: 1963

Weight	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS		(Thousands of tons)							
Total.....	¹ 39,283	100.0	50.5	33.8	11.9	-	2.4	1.2	0.2
Shipments—									
Under 1,000 pounds.....	1,119	100.0	1.7	78.9	13.7	0.3	.4	4.9	.1
Under 50 pounds.....	16	100.0	.7	57.9	10.6	2.5	.1	28.2	-
50 to 99 pounds.....	43	100.0	2.1	81.6	7.2	.9	.1	8.1	-
100 to 199 pounds.....	128	100.0	1.6	72.2	15.7	.5	-	9.8	.2
200 to 499 pounds.....	389	100.0	1.5	81.2	11.1	.2	.5	5.5	-
500 to 999 pounds.....	543	100.0	2.0	79.3	15.8	.2	.4	2.2	.1
1,000 to 9,999 pounds.....	4,316	100.0	2.6	66.2	30.1	-	.2	.8	.1
1,000 to 1,999 pounds.....	773	100.0	2.3	75.6	19.1	-	.5	2.4	.1
2,000 to 2,999 pounds.....	665	100.0	1.7	70.2	27.0	-	.1	1.0	-
3,000 to 4,999 pounds.....	940	100.0	2.9	65.1	31.5	-	-	.4	.1
5,000 to 9,999 pounds.....	1,938	100.0	2.9	61.5	35.0	.1	.2	.3	-
10,000 to 29,999 pounds.....	7,939	100.0	20.9	52.3	25.8	-	.1	.6	.3
10,000 to 19,999 pounds.....	3,882	100.0	5.6	57.7	35.8	-	.1	.7	.1
20,000 to 29,999 pounds.....	4,057	100.0	35.5	47.4	16.2	-	.1	.4	.4
30,000 to 59,999 pounds.....	11,686	100.0	52.2	37.2	9.7	-	.3	.4	.2
30,000 to 39,999 pounds.....	5,684	100.0	38.9	46.4	14.0	-	.1	.2	.4
40,000 to 49,999 pounds.....	3,445	100.0	52.5	37.3	9.2	-	.4	.5	.1
50,000 to 59,999 pounds.....	2,557	100.0	81.7	16.7	.6	-	.4	.6	-
60,000 to 89,999 pounds.....	5,779	100.0	87.9	10.5	.6	-	.7	.2	.1
90,000 pounds and over.....	8,444	100.0	81.0	5.0	.2	-	10.3	3.3	.2
TON-MILES		(Millions of ton-miles)							
Total.....	¹ 16,831	100.0	71.2	20.3	3.7	-	3.0	1.7	.1
Shipments—									
Under 1,000 pounds.....	394	100.0	3.9	78.5	1.4	.6	1.5	14.1	-
Under 50 pounds.....	7	100.0	2.2	56.2	.7	4.7	.1	36.1	-
50 to 99 pounds.....	18	100.0	8.3	74.3	.5	1.3	.1	15.5	-
100 to 199 pounds.....	49	100.0	3.3	67.7	1.1	1.0	.1	26.7	.1
200 to 499 pounds.....	155	100.0	3.6	76.5	1.0	.3	1.6	17.0	-
500 to 999 pounds.....	165	100.0	4.0	85.0	1.9	.6	1.9	6.5	.1
1,000 to 9,999 pounds.....	957	100.0	8.7	77.8	10.1	.1	.3	2.9	.1
1,000 to 1,999 pounds.....	232	100.0	6.3	81.9	3.9	.1	.9	6.7	.2
2,000 to 2,999 pounds.....	167	100.0	6.3	83.4	5.7	-	.2	4.4	-
3,000 to 4,999 pounds.....	218	100.0	7.7	80.3	11.3	-	-	.6	.1
5,000 to 9,999 pounds.....	340	100.0	12.2	70.6	15.7	.3	.2	1.0	-
10,000 to 29,999 pounds.....	1,842	100.0	44.1	41.7	13.3	-	-	.7	.2
10,000 to 19,999 pounds.....	616	100.0	18.8	56.5	22.9	-	-	1.5	.3
20,000 to 29,999 pounds.....	1,226	100.0	56.7	34.3	8.5	-	-	.3	.2
30,000 to 59,999 pounds.....	4,994	100.0	68.0	25.9	5.5	-	.4	-	.2
30,000 to 39,999 pounds.....	2,026	100.0	53.8	35.5	10.1	-	.2	.1	.3
40,000 to 49,999 pounds.....	1,732	100.0	70.3	25.4	3.9	-	.4	-	-
50,000 to 59,999 pounds.....	1,236	100.0	88.2	10.9	.1	-	.8	-	-
60,000 to 89,999 pounds.....	3,302	100.0	92.4	5.8	.2	-	1.4	.2	-
90,000 pounds and over.....	5,342	100.0	86.4	2.1	-	-	7.9	3.5	.1

NOTE: Because of rounding, detail may not add to total.

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 4. Tons of Shipments—Means of Transport,
Distance Shipped, and Weight: 1963

Distance and weight	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS									
Total.....	139,283	100.0	50.5	33.8	11.9	-	2.4	1.2	0.2
Under 200 miles.....	14,741	100.0	20.3	50.7	25.0	-	2.5	1.1	.4
Under 1,000 pounds.....	578	100.0	.4	72.2	26.2	-	.1	1.1	-
1,000 to 9,999 pounds.....	3,011	100.0	.5	58.5	40.5	-	.2	.2	.1
10,000 to 29,999 pounds.....	5,100	100.0	7.3	57.4	34.4	-	.1	.4	.4
30,000 pounds and over.....	6,052	100.0	43.1	39.0	9.3	-	6.0	2.1	.5
200 to 399 miles.....	8,147	100.0	51.9	38.7	8.2	-	.8	.4	-
Under 1,000 pounds.....	213	100.0	2.0	95.0	.7	0.1	.1	1.9	.2
1,000 to 29,999 pounds.....	2,023	100.0	20.9	65.9	11.8	-	-	1.4	-
30,000 pounds and over.....	5,911	100.0	64.3	27.4	7.2	-	1.1	-	-
400 to 599 miles.....	5,755	100.0	72.0	22.7	3.7	-	1.5	.1	-
Under 1,000 pounds.....	106	100.0	2.4	92.6	.3	.8	-	3.9	-
1,000 to 29,999 pounds.....	946	100.0	43.7	47.4	8.7	-	-	.2	-
30,000 pounds and over.....	4,703	100.0	79.2	16.2	2.8	-	1.8	-	-
600 to 999 miles.....	7,625	100.0	76.1	14.5	1.2	-	4.8	3.2	.2
Under 1,000 pounds.....	129	100.0	4.4	84.5	-	.6	-	10.5	-
1,000 to 29,999 pounds.....	837	100.0	46.4	47.5	3.9	.2	.1	1.6	.3
30,000 to 59,999 pounds.....	1,893	100.0	73.4	22.6	3.1	-	.5	.1	.3
60,000 pounds and over.....	4,766	100.0	84.4	3.5	-	-	7.5	4.5	.1
1,000 miles and over.....	3,015	100.0	87.8	8.2	.6	-	2.1	1.3	-
Under 1,000 pounds.....	93	100.0	4.7	61.6	.3	1.2	3.9	28.3	-
1,000 pounds and over.....	2,922	100.0	90.3	6.5	.7	-	2.0	.5	-

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 5. Tons and Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons and ton-miles	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
	TONS OF SHIPMENTS	(Thousands of tons)								
	Total products shipped.....	65,551	100.0	49.9	33.1	13.9	-	1.9	1.0	0.2
	Total primary commodities ¹ ..	58,925	100.0	52.2	31.9	12.7	-	2.1	.9	.2
	Total other commodities ²	6,626	100.0	30.0	43.8	24.3	0.1	.2	1.5	.1
	Selected Primary Commodities ³									
261	Pulp and pulp mill products.....	3,621	100.0	82.5	2.9	.6	-	6.1	7.7	.2
262	Paper (exc. building paper).....	14,117	100.0	58.4	27.9	8.8	-	3.9	.6	.4
263	Paperboard, fiberboard, and pulpboard (except insulating board).	15,714	100.0	69.8	15.9	11.2	-	3.0	-	.1
264	Converted paper and paperboard products (exc. containers and boxes).....	8,616	100.0	54.7	36.4	8.0	-	-	.8	.1
2641	Coated and glazed paper.....	1,102	100.0	68.0	24.2	7.6	-	-	.2	-
2643	Paper bags.....	2,322	100.0	49.3	40.9	8.5	-	.1	1.0	.2
2647	Sanitary paper products.....	1,640	100.0	59.0	28.6	10.1	-	-	2.2	.1
2649	Miscellaneous converted paper products and paperboard products.....	2,709	100.0	64.2	29.1	6.5	-	-	.2	-
265	Containers, boxes, and related products, paperboard, fiberboard, and pulpboard.....	11,530	100.0	15.2	52.5	31.0	-	.1	1.1	.1
2651	Containers, boxes, baskets, pallets, and skids, paperboard, fiberboard, and pulpboard.....	10,562	100.0	14.2	52.9	31.6	-	.1	1.1	.1
2654	Sanitary food containers.....	703	100.0	33.5	61.5	4.4	-	.2	.3	.1
266	Building paper and building board	4,449	100.0	42.6	53.4	3.8	-	.2	-	-
	TON-MILES	(Millions of ton-miles)								
	Total.....	26,849	100.0	70.9	20.7	4.6	-	2.4	1.3	.1
	Total primary commodities ¹ ..	25,068	100.0	72.9	19.1	4.1	-	2.5	1.3	.1
	Total other commodities ²	1,781	100.0	42.5	42.9	12.0	.2	.9	1.4	.1
	Selected Primary Commodities ³									
261	Pulp and pulp mill products.....	2,360	100.0	88.1	.7	.1	-	3.2	7.8	.1
262	Paper (exc. building paper).....	6,994	100.0	72.0	18.9	3.5	-	5.1	.2	.3
263	Paperboard, fiberboard, and pulpboard (except insulating board).	7,358	100.0	87.1	7.1	3.4	-	2.3	-	.1
264	Converted paper and paperboard products (exc. containers and boxes).....	3,681	100.0	70.4	25.0	3.0	-	.1	1.5	-
2641	Coated and glazed paper.....	550	100.0	80.9	16.7	2.1	-	-	.3	-
2643	Paper bags.....	1,131	100.0	65.5	29.7	4.0	-	.1	.6	.1
2647	Sanitary paper products.....	672	100.0	75.1	15.2	4.0	-	-	5.7	-
2649	Miscellaneous converted paper products and paperboard products.....	1,030	100.0	80.3	17.8	1.5	-	-	.4	-
265	Containers, boxes, and related products, paperboard, fiberboard, and pulpboard.....	2,371	100.0	33.1	47.5	16.4	-	.4	2.3	.3
2651	Containers, boxes, baskets, pallets, and skids, paperboard, fiberboard, and pulpboard.....	2,002	100.0	29.3	48.9	18.4	-	.4	2.7	.3
2654	Sanitary food containers.....	332	100.0	57.2	41.2	.9	-	.2	.4	.1
266	Building paper and building board	2,155	100.0	60.6	38.2	.7	-	.5	-	-

See footnotes at end of table 6.

TABLE 6. Tons of Shipments—Distance Shipped and
Commodity: 1963

TCC code	Commodity	Tons (thousands)	Percent distribution by distance of shipment								
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
	Total products shipped..	65,551	100.0	22.3	15.7	13.5	8.7	8.1	25.1	4.2	2.4
	Total primary com- modities ¹	58,925	100.0	21.3	14.6	12.8	9.1	8.5	26.7	4.5	2.5
	Total other com- modities ²	6,626	100.0	30.7	25.9	20.0	5.4	4.4	10.1	1.8	1.7
	Selected Primary Commodities ³										
261	Pulp and pulp mill products	3,621	100.0	17.2	8.0	7.6	7.6	6.7	33.0	12.5	7.4
262	Paper (exc. building paper)	14,117	100.0	13.9	13.8	11.9	10.1	8.9	32.9	5.2	3.3
263	Paperboard, fiberboard, and pulpboard (except insu- lating board).....	15,714	100.0	12.9	11.5	17.5	8.7	8.6	34.6	4.2	2.0
264	Converted paper and paper- board products (exc. con- tainers and boxes).....	8,616	100.0	18.1	16.8	12.2	8.1	12.7	24.8	5.2	2.1
2641	Coated and glazed paper..	1,102	100.0	6.5	8.5	6.3	12.3	31.1	29.4	4.4	1.5
2643	Paper bags.....	2,322	100.0	10.4	13.2	14.3	8.8	9.8	36.3	6.7	.5
2647	Sanitary paper products..	1,640	100.0	21.8	30.0	6.7	4.7	5.8	20.8	7.5	2.7
2649	Miscellaneous converted paper products and paperboard products.....	2,709	100.0	27.2	14.2	15.5	5.8	13.4	16.1	4.0	3.8
265	Containers, boxes, and re- lated products, paperboard, fiberboard, and pulpboard.	11,530	100.0	47.6	20.4	9.6	7.7	4.1	8.5	1.1	1.0
2651	Containers, boxes, baskets, pallets, and skids, paperboard, fiberboard, and pulp- board.....	10,562	100.0	49.6	20.6	9.8	7.2	3.8	7.6	.6	.8
2654	Sanitary food containers.	703	100.0	10.8	22.5	8.5	13.3	9.9	23.1	8.5	3.4
266	Building paper and building board.....	4,449	100.0	11.3	9.7	12.9	15.8	12.9	29.9	4.6	2.9

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 261, 262, 263, 264, 265, and 266.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 7. Tons of Shipments—Means of Transport, Geographic Division of Origin, and Distance Shipped: 1963

Geographic division and distance	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
United States, total.....	65,551	100.0	49.9	33.1	13.9	-	1.9	1.0	0.2
Under 200 miles.....	24,899	100.0	20.9	47.5	28.7	-	1.7	.9	.3
200 to 399 miles.....	14,570	100.0	49.3	38.5	9.5	-	1.7	.9	.1
400 to 599 miles.....	9,276	100.0	71.9	23.5	3.3	-	1.0	.1	.2
600 to 999 miles.....	12,453	100.0	78.6	13.8	1.9	-	3.6	2.0	.1
1,000 miles and over.....	4,353	100.0	88.1	8.3	.9	-	1.7	.9	.1
New England and Middle Atlantic.....	16,172	100.0	31.6	43.4	23.7	-	.1	1.0	.2
Under 200 miles.....	9,367	100.0	13.7	50.4	34.8	-	-	.8	.3
200 to 399 miles.....	3,478	100.0	41.6	45.1	12.9	-	-	.4	-
400 to 599 miles.....	1,102	100.0	67.9	29.4	2.1	-	-	.3	.3
600 to 999 miles.....	1,484	100.0	72.1	20.8	4.9	-	.1	2.0	.1
1,000 miles and over.....	741	100.0	75.4	16.5	2.7	-	.9	4.2	.3
East North Central and West North Central.....	18,699	100.0	45.5	37.6	16.5	-	-	.3	.1
Under 200 miles.....	7,338	100.0	21.3	48.5	29.7	-	-	.2	.3
200 to 399 miles.....	5,117	100.0	46.5	41.9	11.1	-	-	.5	-
400 to 599 miles.....	3,352	100.0	68.3	25.4	6.1	-	.1	.1	-
600 to 999 miles.....	2,165	100.0	77.6	16.4	5.7	0.1	-	.1	.1
1,000 miles and over.....	727	100.0	82.3	16.4	.1	.1	-	1.1	-
South Atlantic, East South Central and West South Central.....	23,045	100.0	68.7	18.9	6.0	-	4.9	1.3	.2
Under 200 miles.....	4,509	100.0	38.7	29.5	23.7	-	6.4	1.6	.1
200 to 399 miles.....	5,042	100.0	63.7	27.0	4.3	-	4.8	-	.2
400 to 599 miles.....	4,391	100.0	76.0	20.5	1.2	-	2.0	-	.3
600 to 999 miles.....	7,298	100.0	80.7	9.7	.4	-	6.1	2.9	.2
1,000 miles and over.....	1,805	100.0	91.3	3.8	.8	-	3.8	.1	.2
Mountain and Pacific ¹	7,635	100.0	42.4	43.2	10.6	-	1.7	2.0	.1
Under 200 miles.....	3,685	100.0	16.5	61.2	17.0	-	3.4	1.7	.2
200 miles and over.....	3,950	100.0	66.4	26.4	4.6	-	.2	2.4	-

¹No data were obtained on shipments originating in Alaska and Hawaii.

CENSUS GEOGRAPHIC DIVISIONS

New England—Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut

Middle Atlantic—New York, New Jersey, Pennsylvania

East North Central—Ohio, Indiana, Illinois, Michigan, Wisconsin

West North Central—Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, Kansas

South Atlantic—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida

East South Central—Kentucky, Tennessee, Alabama, Mississippi

West South Central—Arkansas, Louisiana, Oklahoma, Texas

Mountain—Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada

Pacific—Washington, Oregon, California, Alaska, Hawaii

TABLE 8. Tons and Ton-Miles of Shipments—Means of Transport and Geographic Division of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS		(Thousands of tons)							
United States, total.....	65,551	100.0	49.9	33.1	13.9	-	1.9	1.0	0.2
Shipments originating from—									
New England.....	4,368	100.0	50.7	31.2	16.2	-	.1	1.1	.7
Middle Atlantic.....	11,804	100.0	24.5	48.1	26.4	-	.1	.9	-
East North Central.....	15,149	100.0	42.0	39.0	18.6	-	-	.2	.2
West North Central.....	3,550	100.0	60.3	31.6	7.5	-	-	.6	-
South Atlantic.....	12,402	100.0	69.0	17.1	8.4	-	4.7	.6	.2
East South Central.....	6,854	100.0	63.7	25.5	3.6	-	4.0	3.1	.1
West South Central.....	3,789	100.0	76.9	13.1	2.6	-	7.2	-	.2
Mountain.....	7,635	100.0	42.3	43.3	10.6	-	1.7	2.0	.1
Pacific ¹									
TON-MILES		(Millions of ton-miles)							
United States, total.....	26,849	100.0	70.9	20.7	4.6	-	2.4	1.3	.1
Shipments originating from—									
New England.....	1,905	100.0	71.0	21.1	4.9	-	.1	2.5	.4
Middle Atlantic.....	2,684	100.0	46.6	38.6	12.9	-	.4	1.5	-
East North Central.....	4,734	100.0	62.2	28.5	8.7	0.1	-	.4	.1
West North Central.....	1,598	100.0	69.4	25.4	4.5	.1	-	.6	-
South Atlantic.....	5,966	100.0	81.7	11.4	2.4	-	4.0	.2	.3
East South Central.....	3,683	100.0	73.0	18.5	1.1	-	2.4	4.9	.1
West South Central.....	2,531	100.0	78.5	9.2	.9	-	11.3	-	.1
Mountain.....	3,748	100.0	75.6	20.4	2.9	-	.3	.8	-
Pacific ¹									

¹No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 9. Tons and Ton-Miles of Shipments—Geographic Division of Destination and of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by geographic division of destination									
		All divisions	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific ¹
TONS OF SHIPMENTS	(Thousands of tons)										
United States, total.....	65,551	100.0	5.6	23.0	28.5	6.2	13.7	5.4	5.3	1.1	11.2
Shipments originating from—											
New England.....	4,368	100.0	29.7	41.4	15.0	1.5	7.5	2.1	1.8	.1	.9
Middle Atlantic.....	11,804	100.0	8.4	62.6	8.4	2.4	15.4	1.3	.8	—	.7
East North Central.....	15,149	100.0	1.7	11.3	63.3	9.5	4.9	4.6	2.3	.6	1.8
West North Central.....	3,550	100.0	1.1	4.5	45.6	26.2	2.8	6.0	9.7	1.6	2.5
South Atlantic.....	12,402	100.0	5.5	23.5	21.7	4.0	34.1	6.5	3.8	.1	.8
East South Central.....	6,854	100.0	3.1	10.0	28.6	6.7	17.5	19.1	12.3	.9	1.8
West South Central.....	3,789	100.0	3.4	8.9	23.5	7.7	14.2	6.1	30.4	1.9	3.9
Mountain.....	7,635	100.0	.7	1.5	3.4	1.4	.5	.4	1.6	5.4	85.1
Pacific ²											
TON-MILES	(Millions of ton-miles)										
United States, total.....	26,849	100.0	6.2	19.1	26.7	7.7	11.5	5.5	7.1	2.4	13.8
Shipments originating from—											
New England.....	1,905	100.0	8.4	27.6	29.7	3.9	12.9	4.8	6.5	.7	5.5
Middle Atlantic.....	2,684	100.0	8.1	30.0	17.9	10.4	16.6	3.9	4.6	.4	8.1
East North Central.....	4,734	100.0	3.8	17.6	32.2	10.9	9.3	7.2	6.4	2.1	10.5
West North Central.....	1,598	100.0	3.0	9.6	40.1	12.6	5.3	6.2	12.2	2.7	8.3
South Atlantic.....	5,966	100.0	8.5	26.4	28.2	6.9	14.1	5.3	6.5	.4	3.7
East South Central.....	3,683	100.0	6.6	16.3	29.4	7.7	14.7	9.5	7.8	1.9	6.1
West South Central.....	2,531	100.0	7.1	15.1	28.3	6.1	15.8	4.1	10.9	2.9	9.7
Mountain.....	3,748	100.0	3.3	7.3	12.2	4.1	2.5	1.6	5.5	8.0	55.5
Pacific ²											

¹Shipments to Alaska and Hawaii from the 48 conterminous States and the District of Columbia are included.

²No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 10. Tons and Ton-Miles of Shipments—Means of Transport and Employment Size of Establishment: 1963

Employment size of establishment	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
Total.....	65,551	100.0	49.9	33.1	13.9	-	1.9	1.0	0.2
Number of employees—									
Under 20 employees.....	643	100.0	14.9	21.3	61.1	-	-	.9	1.8
20 to 99 employees.....	9,908	100.0	17.7	51.6	28.7	-	.1	1.9	-
100 to 499 employees.....	25,223	100.0	35.8	44.2	19.1	-	.4	.4	.1
500 employees and over.....	29,777	100.0	73.1	17.9	3.5	-	3.9	1.3	.3
TON-MILES	(Millions of ton-miles)								
Total.....	26,849	100.0	70.9	20.7	4.6	-	2.4	1.3	.1
Number of employees—									
Under 20 employees.....	133	100.0	25.1	25.8	44.3	-	-	3.4	1.4
20 to 99 employees.....	1,873	100.0	28.0	51.9	16.6	-	.4	3.1	-
100 to 499 employees.....	7,992	100.0	55.4	35.4	8.1	-	.2	.8	.1
500 employees and over.....	16,851	100.0	83.3	10.2	1.3	-	3.7	1.3	.2

TABLE 11. Tons of Shipments—Distance Shipped and Employment Size of Establishment: 1963

Employment size of establishment	Tons (thousands)	Percent distribution by distance of shipment								
		All distances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
Total tons.....	65,551	100.0	22.3	15.7	13.5	8.7	8.1	25.1	4.2	2.4
Number of employees—										
Under 20 employees.....	643	100.0	20.0	69.0	.5	1.7	.6	5.1	2.7	.4
20 to 99 employees.....	9,908	100.0	40.3	27.1	15.3	7.0	4.3	5.1	.4	.5
100 to 499 employees.....	25,223	100.0	29.5	17.2	15.2	8.7	8.7	16.7	2.6	1.4
500 employees and over.....	29,777	100.0	10.2	9.5	11.7	9.5	9.0	39.2	6.9	4.0

TABLE 12. **Tons of Shipments—Distance Shipped and
Production Area of Origin: 1963**

Production Area of origin	Tons (thousands)	Percent distribution by distance of shipment							
		All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
TONS OF SHIPMENTS									
Total.....	65,551	100.0	22.3	15.7	13.5	16.8	25.1	4.2	2.4
Production Areas ¹ —									
1.....	414	100.0	33.8	37.2	5.8	10.6	9.7	2.0	.9
3.....	1,175	100.0	62.0	16.0	3.7	6.2	6.3	5.3	.5
4.....	745	100.0	67.8	9.8	5.9	5.0	5.5	3.8	2.2
5.....	1,970	100.0	56.5	22.8	11.8	3.0	4.2	.4	1.3
9.....	984	100.0	26.8	22.9	8.9	5.0	29.2	5.4	1.8
14.....	932	100.0	20.2	4.1	20.2	23.9	24.8	.7	6.1
15.....	1,282	100.0	51.9	20.5	7.2	6.5	11.5	1.0	1.4
Balance of Production Areas.....	13,781	100.0	37.0	15.0	17.9	13.0	13.1	1.7	2.3
SMSA's outside Production Areas.	12,913	100.0	14.2	17.1	11.9	12.9	35.8	4.9	3.2
Balance of United States.....	31,355	100.0	12.9	14.8	13.2	22.4	28.9	5.5	2.3

¹For description of Production Areas, see map in appendix C.

TABLE 13. **Tons and Ton-Miles of Shipments—Area of Destination
and of Origin: 1963**

Area of origin	Tons and ton-miles	Percent distribution by area of destination			
		All areas of destination	Production Areas	SMSA's outside Production Areas	Areas outside SMSA's
TONS OF SHIPMENTS	(Thousands of tons)				
United States, total.....	65,551	100.0	52.1	20.6	27.3
In Production Areas.....	21,283	100.0	62.9	13.3	23.8
In SMSA's outside Production Areas.....	12,913	100.0	40.3	25.4	34.3
Outside of SMSA's.....	31,355	100.0	49.7	23.5	26.8
TON-MILES	(Millions of ton- miles)				
United States, total.....	26,849	100.0	53.0	20.4	26.6
In Production Areas.....	5,976	100.0	55.1	20.7	24.2
In SMSA's outside Production Areas.....	6,297	100.0	48.2	19.7	32.1
Outside of SMSA's.....	14,576	100.0	54.3	20.5	25.2

Shipper Group 7

Basic Chemicals, Plastics Materials, Synthetic Rubber, and Fibers

Data for Shipper Group 7 are based on a probability sample of 53,802 shipments reported by 424 establishments. The shipper group has been divided into three subgroups which can be closely related to industries classified in the Standard Industrial Classification (SIC). (This is the system of industrial classification developed over a period of years by experts on classification in government and private industry under the guidance of the Bureau of the Budget.) The subgroup and related SIC industries are as follows:

Shipper Subgroup 071.—Basic inorganic chemicals, industrial gases, dyes and pigments
 SIC 2812.—Alkalies and chlorine
 SIC 2813.—Industrial gases
 SIC 2814.—Cyclic (coal tar) crudes
 SIC 2815.—Dyes, dye (cyclic) intermediates, and organic pigments (lakes and toners)
 SIC 2816.—Inorganic pigments
 SIC 2895.—Carbon black

Shipper Subgroup 072.—Miscellaneous industrial chemicals
 SIC 2818.—Industrial organic chemicals, n.e.c.
 SIC 2819.—Industrial inorganic chemicals, n.e.c.

Shipper Subgroup 073.—Plastics materials and synthetic resins, rubber, and fibers
 SIC 2821.—Plastics materials, synthetic resins, and nonvulcanizable elastomers
 SIC 2822.—Synthetic rubber (vulcanizable elastomers)
 SIC 2823.—Cellulosic man-made fibers
 SIC 2824.—Synthetic organic fibers, except cellulosic

Commodities primary to these industries are classified in the following Transportation Commodity Classifications (TCC):¹

TCC 281.—Industrial chemicals
 TCC 282.—Plastics materials and plasticizers, synthetic resins, rubbers, and fibers

Data for these commodities are included in the Commodity Series chapter: Commodity Group 28, Chemicals and Allied Products.

Because the data are based on a probability sample, they are subject to sampling variability. The term "sampling variability" refers to the differences that would be expected between results of a sample survey and results that would have been obtained from a complete enumeration of plants and shipping documents. Estimates of sampling variability for Shipper Group 7 on total tons and on key items, are shown below:

Item	Estimated tons based on sample (thousands)	Sampling variability (percent)
Total tons.....	79,916	5.5
SHIPPER SUBGROUPS		
071 Basic inorganic chemicals, industrial gases, dyes and pigments.....	27,559	12.0
072 Miscellaneous industrial chemicals.....	42,886	7.1
073 Plastics materials and synthetic resins, rubber, and fibers.....	9,471	4.8
MEANS OF TRANSPORT		
Rail.....	43,246	8.2
Motor carrier.....	18,738	5.1
Private truck.....	7,626	21.0
Water.....	9,802	15.5
Other.....	504	29.4
ORIGIN OF SHIPMENT (Geographic Division)		
New England.....	1,791	20.1
Middle Atlantic.....	10,678	13.5
East North Central.....	22,300	14.3
West North Central.....	2,693	15.7
South Atlantic.....	9,659	7.4
East South Central.....	8,531	16.0
West South Central.....	21,055	12.3
Mountain and Pacific.....	3,209	14.2

¹See *Commodity Classification for Transportation Statistics, 1963, Executive Office of the President, Bureau of the Budget.*

TABLE 1. Tons and Ton-Miles of Shipments—Means of Transport and Shipper Subgroup: 1963

Shipper subgroup	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
7 Basic chemicals, plastics materials and synthetic resins, rubber and fibers.....	79,916	100.0	54.2	23.4	9.5	-	12.3	0.4	0.2
071 Basic inorganic chemicals, industrial gases, dyes and pigments.....	27,559	100.0	61.7	14.7	13.5	-	9.9	.1	.1
072 Miscellaneous industrial chemicals.....	42,886	100.0	53.7	22.9	6.5	-	16.2	.5	.2
073 Plastics materials and synthetic resins, rubber, and fibers	9,471	100.0	34.0	51.5	11.8	0.1	1.2	.5	.9
TON-MILES	(Millions of ton-miles)								
7 Basic chemicals, plastics materials and synthetic resins, rubber and fibers.....	36,397	100.0	61.8	13.8	3.7	-	20.3	.2	.2
071 Basic inorganic chemicals, industrial gases, dyes and pigments.....	10,034	100.0	62.6	9.2	5.8	-	22.2	.1	.1
072 Miscellaneous industrial chemicals.....	21,805	100.0	63.6	11.1	2.1	-	23.0	.2	-
073 Plastics materials and synthetic resins, rubber, and fibers	4,558	100.0	51.9	36.6	6.7	.1	3.1	.6	1.0

TABLE 2. Tons of Shipments—Means of Transport and Distance Shipped: 1963

Distance shipped ¹	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
All distances.....	79,916	100.0	54.2	23.4	9.5	-	12.3	0.4	0.2
Under 50 miles.....	9,055	100.0	28.8	42.2	19.7	-	6.8	1.7	.8
50 to 99 miles.....	7,449	100.0	31.0	35.9	28.1	-	4.5	.4	.1
100 to 199 miles.....	11,656	100.0	45.1	31.3	14.3	-	9.1	.1	.1
200 to 299 miles.....	14,377	100.0	64.3	20.1	5.2	-	10.2	.1	.1
300 to 399 miles.....	8,026	100.0	66.6	20.6	5.0	-	7.3	.5	-
400 to 499 miles.....	5,659	100.0	66.6	23.0	4.3	-	5.6	.4	.1
500 to 599 miles.....	3,223	100.0	68.6	22.7	7.9	-	.5	.1	.2
600 to 799 miles.....	5,787	100.0	65.2	16.2	5.0	-	12.5	.1	1.0
800 to 999 miles.....	4,492	100.0	52.7	10.9	1.3	-	34.7	.2	.2
1,000 to 1,499 miles.....	6,512	100.0	53.7	5.8	.9	-	39.4	.1	.1
1,500 miles and over.....	3,680	100.0	78.3	5.7	.6	-	15.0	.4	-

NOTE: Percent distributions by ton-miles are about the same as those for tons because data are grouped in mileage blocks.

¹Distances of shipments to foreign destinations are calculated only to the American port of exit.

TABLE 3. Tons and Ton-Miles of Shipments—Means of Transport and Weight: 1963

Weight	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS		(Thousands of tons)							
Total.....	¹ 41,996	100.0	57.1	27.1	6.1	-	9.2	0.1	0.4
Shipments—									
Under 1,000 pounds.....	262	100.0	1.0	78.5	16.7	0.6	.2	2.9	.1
Under 50 pounds.....	5	100.0	.8	39.6	5.9	5.9	.1	47.5	.2
50 to 99 pounds.....	9	100.0	.6	71.8	12.5	2.1	.2	12.1	.7
100 to 199 pounds.....	25	100.0	1.1	73.8	18.7	1.3	.2	4.6	.3
200 to 499 pounds.....	89	100.0	1.1	78.9	17.9	.6	.2	1.3	-
500 to 999 pounds.....	134	100.0	.9	81.0	16.2	.2	.3	1.4	-
1,000 to 9,999 pounds.....	1,424	100.0	2.1	69.1	27.4	.1	.3	.8	.2
1,000 to 1,999 pounds.....	212	100.0	1.0	78.6	19.3	.1	.4	.3	.3
2,000 to 2,999 pounds.....	238	100.0	.8	76.0	22.5	-	.2	.4	.1
3,000 to 4,999 pounds.....	320	100.0	1.7	70.8	25.3	.3	.2	1.6	.1
5,000 to 9,999 pounds.....	654	100.0	3.1	62.8	32.7	.1	.3	.7	.3
10,000 to 29,999 pounds.....	3,475	100.0	3.3	70.9	24.9	-	.3	.4	.2
10,000 to 19,999 pounds.....	1,025	100.0	3.6	56.8	37.8	.2	.5	.7	.4
20,000 to 29,999 pounds.....	2,450	100.0	3.2	76.7	19.5	-	.2	.3	.1
30,000 to 59,999 pounds.....	9,686	100.0	18.4	68.0	12.4	-	.9	.3	-
30,000 to 39,999 pounds.....	5,179	100.0	7.5	74.6	17.1	-	.4	.4	-
40,000 to 59,999 pounds.....	4,507	100.0	30.9	60.7	6.9	-	1.4	.1	-
60,000 to 89,999 pounds.....	9,661	100.0	94.5	4.7	.5	-	.2	-	.1
60,000 to 79,999 pounds.....	4,098	100.0	91.1	7.4	1.0	-	.4	-	.1
80,000 to 89,999 pounds.....	5,563	100.0	97.0	2.7	.2	-	-	-	.1
90,000 pounds and over.....	17,488	100.0	73.9	3.8	.1	-	21.5	-	.7
TON-MILES		(Millions of ton-miles)							
Total.....	¹ 17,481	100.0	64.2	17.6	3.4	-	14.3	.2	.3
Shipments—									
Under 1,000 pounds.....	94	100.0	2.0	85.6	4.7	1.5	.1	6.1	-
Under 50 pounds.....	3	100.0	.5	31.0	1.4	10.3	-	56.7	.1
50 to 99 pounds.....	4	100.0	1.3	73.7	2.6	4.3	.1	17.8	.2
100 to 199 pounds.....	9	100.0	2.3	84.6	3.7	3.2	.1	6.0	.1
200 to 499 pounds.....	31	100.0	3.2	87.5	4.6	1.3	.1	3.3	-
500 to 999 pounds.....	47	100.0	1.3	88.5	5.3	.6	.2	4.1	-
1,000 to 9,999 pounds.....	427	100.0	3.7	80.5	13.4	.2	.1	1.8	.3
1,000 to 1,999 pounds.....	71	100.0	1.7	89.5	6.6	.4	.4	1.1	.3
2,000 to 2,999 pounds.....	76	100.0	1.5	85.3	10.4	-	.2	2.1	.5
3,000 to 4,999 pounds.....	98	100.0	2.9	84.5	8.4	.5	-	3.5	.2
5,000 to 9,999 pounds.....	182	100.0	5.7	72.6	20.1	.1	.1	1.0	.4
10,000 to 29,999 pounds.....	1,049	100.0	7.2	74.7	16.0	.2	.2	1.4	.3
10,000 to 19,999 pounds.....	265	100.0	9.5	63.1	22.0	.7	.4	3.5	.8
20,000 to 29,999 pounds.....	784	100.0	6.4	78.6	14.1	-	.1	.7	.1
30,000 to 59,999 pounds.....	3,177	100.0	37.3	48.7	10.3	-	3.2	.4	.1
30,000 to 39,999 pounds.....	1,599	100.0	14.8	67.3	15.6	.1	1.5	.6	.1
40,000 to 59,999 pounds.....	1,578	100.0	60.2	29.7	4.9	-	4.9	.2	.1
60,000 to 89,999 pounds.....	4,510	100.0	95.7	3.4	.4	-	.3	-	.2
60,000 to 79,999 pounds.....	2,206	100.0	94.6	4.2	.6	-	.5	-	.1
80,000 to 89,999 pounds.....	2,304	100.0	96.9	2.7	.1	-	.1	-	.2
90,000 pounds and over.....	8,224	100.0	68.6	2.1	.1	-	28.8	-	.4

NOTE: Because of rounding, detail may not add to total.

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 4. Tons of Shipments—Means of Transport,
Distance Shipped, and Weight: 1963

Distance and weight	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENT									
Total.....	141,996	100.0	57.1	27.1	6.1	-	9.2	0.1	0.4
Under 200 miles.....	14,318	100.0	38.5	43.4	10.9	-	6.6	.1	.5
Under 1,000 pounds.....	123	100.0	.6	64.4	32.3	0.1	.3	2.2	.1
1,000 to 9,999 pounds.....	724	100.0	1.1	56.5	41.3	.1	.4	.4	.2
10,000 to 29,999 pounds.....	1,639	100.0	1.4	61.4	36.5	-	.5	-	.2
30,000 to 59,999 pounds.....	4,880	100.0	5.4	82.0	12.1	-	.3	.2	-
60,000 pounds and over.....	6,952	100.0	75.1	10.2	.5	-	13.2	-	1.0
200 to 399 miles.....	13,355	100.0	68.8	20.2	4.0	-	6.9	.1	-
Under 1,000 pounds.....	58	100.0	1.0	94.6	2.1	.2	.4	1.7	-
1,000 to 9,999 pounds.....	326	100.0	1.7	81.0	16.4	-	.2	.7	-
10,000 to 29,999 pounds.....	910	100.0	3.4	81.1	14.8	-	.3	.3	.1
30,000 to 59,999 pounds.....	2,204	100.0	17.6	67.7	14.6	-	-	.1	-
60,000 pounds and over.....	9,857	100.0	89.0	1.5	.2	-	9.3	-	-
400 to 599 miles.....	4,707	100.0	67.7	25.5	5.4	-	1.2	.1	.1
Under 1,000 pounds.....	32	100.0	.8	92.6	3.2	1.0	-	2.4	-
1,000 to 29,999 pounds.....	649	100.0	3.4	83.4	12.5	-	-	.4	.3
30,000 pounds and over.....	4,026	100.0	78.7	15.7	4.2	-	1.4	-	-
600 to 999 miles.....	5,731	100.0	59.8	15.5	2.8	-	20.6	.2	1.1
Under 1,000 pounds.....	31	100.0	1.5	89.6	3.3	1.7	-	3.9	-
1,000 to 9,999 pounds.....	134	100.0	2.5	79.7	15.0	.7	.1	1.3	.7
10,000 to 59,999 pounds.....	1,246	100.0	35.6	52.2	11.0	.1	-	.9	.2
60,000 pounds and over.....	4,320	100.0	68.8	2.5	.1	-	27.2	-	1.4
1,000 miles and over.....	3,885	100.0	68.3	9.4	1.7	.1	20.2	.3	-
Under 1,000 pounds.....	18	100.0	3.5	79.7	2.6	2.7	-	11.5	-
1,000 to 59,999 pounds.....	786	100.0	47.5	34.6	7.2	.2	8.9	1.4	.2
60,000 pounds and over.....	3,081	100.0	73.9	2.6	.3	-	23.2	-	-

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 5. Tons and Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons and ton-miles	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
	TONS OF SHIPMENTS	(Thousands of tons)								
	Total products shipped.....	79,916	100.0	54.2	23.4	9.5	-	12.3	0.4	0.2
	Total primary commodities ¹ ..	60,998	100.0	53.4	21.7	10.4	-	13.9	.3	.3
	Total other commodities ²	18,918	100.0	56.6	29.0	6.8	-	6.9	.5	.2
	Selected Primary Commodities ³									
281	Industrial chemicals.....	53,409	100.0	55.2	18.1	10.6	-	15.6	.3	.2
2812	Basic inorganic chemical compounds (including chlorine, potassium and sodium compounds)	18,399	100.0	69.6	18.7	3.3	-	8.3	-	.1
2813	Industrial gases, compressed and liquefied.....	5,923	100.0	34.0	12.6	51.8	-	1.6	-	-
2815	Dyes and dye (cyclic) intermediates and organic pigments (lakes and toners).....	305	100.0	40.9	39.6	18.8	-	-	.5	.2
2816	Inorganic pigments.....	976	100.0	57.6	35.2	6.4	0.1	.6	-	.1
2818	Miscellaneous industrial organic chemicals.....	10,968	100.0	40.3	24.3	3.8	-	31.5	-	.1
2819	Miscellaneous industrial inorganic chemicals.....	12,700	100.0	45.1	17.7	10.8	-	24.6	1.3	.5
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	7,551	100.0	40.5	47.0	9.1	.1	1.9	.5	.9
	TON-MILES	(Millions of ton-miles)								
	Total.....	36,397	100.0	61.8	13.8	3.7	-	20.3	.2	.2
	Total primary commodities ¹ ..	26,174	100.0	56.7	12.5	4.1	-	26.3	.2	.2
	Total other commodities ²	10,223	100.0	74.7	17.0	2.8	-	5.0	.4	.1
	Selected Primary Commodities ³									
281	Industrial chemicals.....	22,039	100.0	56.6	8.9	4.0	-	30.4	.1	-
2812	Basic inorganic chemical compounds (including chlorine, potassium and sodium compounds)	5,475	100.0	75.9	10.7	2.9	-	10.4	-	.1
2813	Industrial gases, compressed and liquefied.....	1,574	100.0	62.7	8.9	26.8	-	1.6	-	-
2815	Dyes and dye (cyclic) intermediates and organic pigments (lakes and toners).....	138	100.0	56.2	33.4	8.2	-	-	2.1	.1
2816	Inorganic pigments.....	570	100.0	74.5	19.2	4.4	.1	1.5	-	.3
2818	Miscellaneous industrial organic chemicals.....	7,214	100.0	40.3	9.8	1.5	-	48.4	-	-
2819	Miscellaneous industrial inorganic chemicals.....	6,105	100.0	49.1	5.7	2.5	-	42.5	.2	-
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	4,125	100.0	58.0	31.8	4.2	.1	4.3	.7	.9

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 281 and 282.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 6. Tons of Shipments—Distance Shipped and Commodity: 1963

TCC code	Commodity	Tons (thousands)	Percent distribution by distance of shipment								
			All distances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
	Total products shipped.	79,916	100.0	20.7	14.6	18.0	10.0	7.1	16.9	8.1	4.6
	Total primary commodities ¹	60,998	100.0	21.6	15.1	19.0	10.0	6.6	16.1	7.9	3.7
	Total other commodities ²	18,918	100.0	17.6	13.1	14.6	10.1	8.8	19.4	8.9	7.5
	Selected Primary Commodities ³										
281	Industrial chemicals.....	53,409	100.0	22.2	15.6	20.1	10.1	6.3	14.8	7.4	3.5
2812	Basic inorganic chemical compounds (including chlorine, potassium and sodium compounds).....	18,399	100.0	20.5	20.1	19.2	16.9	8.7	12.9	.8	.9
2813	Industrial gases, compressed and liquefied...	5,923	100.0	36.5	23.0	12.1	9.8	4.3	10.5	1.9	1.9
2815	Dyes and dye (cyclic) intermediates and organic pigments (lakes and toners).....	305	100.0	23.2	5.8	11.0	12.2	9.0	33.5	.5	4.8
2816	Inorganic pigments.....	976	100.0	8.9	10.4	14.2	11.5	12.3	30.8	2.9	9.0
2818	Miscellaneous industrial organic chemicals.....	10,968	100.0	12.9	10.0	13.1	8.0	5.8	23.4	25.0	1.8
2819	Miscellaneous industrial inorganic chemicals.....	12,700	100.0	33.5	14.7	10.0	5.1	5.1	14.8	6.9	9.9
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	7,551	100.0	17.5	11.1	11.6	9.2	8.0	25.3	11.9	5.4

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 281 and 282.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 7. Tons of Shipments—Means of Transport, Geographic Division of Origin, and Distance Shipped: 1963

Geographic division and distance	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
United States, total.....	79,916	100.0	54.2	23.4	9.5	-	12.3	0.4	0.2
Under 200 miles.....	28,160	100.0	36.1	36.0	19.7	-	7.2	.7	.3
200 to 399 miles.....	22,403	100.0	65.1	20.3	5.1	-	9.2	.2	.1
400 to 599 miles.....	8,882	100.0	67.3	22.9	5.6	-	3.8	.3	.1
600 to 999 miles.....	10,279	100.0	59.7	13.9	3.4	-	22.3	.1	.6
1,000 miles and over.....	10,192	100.0	62.6	5.8	.8	-	30.6	.2	-
New England and Middle Atlantic.....	12,469	100.0	41.4	43.3	10.3	-	4.6	.3	.1
Under 200 miles.....	6,124	100.0	27.9	56.0	14.0	-	1.8	.2	.1
200 to 399 miles.....	3,239	100.0	47.7	32.0	6.2	-	13.9	.1	.1
400 to 599 miles.....	1,250	100.0	58.7	33.6	7.5	-	-	.2	-
600 to 999 miles.....	1,215	100.0	58.3	30.7	9.8	0.2	-	.9	.1
1,000 miles and over.....	641	100.0	72.0	22.0	2.2	-	2.5	1.3	-
East North Central and West North Central.....	24,993	100.0	60.4	22.7	14.9	-	1.6	.3	.1
Under 200 miles.....	9,303	100.0	31.4	34.5	33.8	-	-	.2	.1
200 to 399 miles.....	9,692	100.0	79.8	15.1	4.6	.1	-	.4	-
400 to 599 miles.....	3,167	100.0	69.6	17.9	3.7	-	8.2	.6	-
600 to 999 miles.....	1,993	100.0	75.6	15.9	1.1	-	7.0	.2	.2
1,000 miles and over.....	838	100.0	83.5	14.5	1.4	.1	-	.4	.1
South Atlantic, East South Central and West South Central.....	39,245	100.0	55.6	16.8	5.2	-	21.5	.5	.4
Under 200 miles.....	11,365	100.0	47.5	24.4	11.0	-	15.1	1.4	.6
200 to 399 miles.....	8,861	100.0	56.9	20.3	4.5	-	18.1	.1	.1
400 to 599 miles.....	4,346	100.0	69.4	23.9	4.7	-	1.7	.1	.2
600 to 999 miles.....	6,584	100.0	56.6	10.7	2.1	-	29.7	-	.9
1,000 miles and over.....	8,089	100.0	57.2	3.7	.7	-	38.3	.1	-
Mountain and Pacific ¹	3,209	100.0	37.9	32.4	17.8	-	11.6	-	.3
Under 200 miles.....	1,368	100.0	11.1	52.4	22.3	-	13.6	.1	.5
200 miles and over.....	1,841	100.0	57.9	17.5	14.4	-	10.1	-	.1

¹No data were obtained on shipments originating in Alaska and Hawaii.

CENSUS GEOGRAPHIC DIVISIONS

New England—Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut
 Middle Atlantic—New York, New Jersey, Pennsylvania
 East North Central—Ohio, Indiana, Illinois, Michigan, Wisconsin
 West North Central—Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, Kansas
 South Atlantic—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida
 East South Central—Kentucky, Tennessee, Alabama, Mississippi
 West South Central—Arkansas, Louisiana, Oklahoma, Texas
 Mountain—Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada
 Pacific—Washington, Oregon, California, Alaska, Hawaii

TABLE 8. Tons and Ton-Miles of Shipments—Means of Transport and Geographic Division of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS		(Thousands of tons)							
United States, total.....	79,916	100.0	54.2	23.4	9.5	-	12.3	0.4	0.2
Shipments originating from—									
New England.....	1,791	100.0	21.0	61.7	15.9	-	.1	1.2	.1
Middle Atlantic.....	10,678	100.0	44.8	40.2	9.3	-	5.4	.2	.1
East North Central.....	22,300	100.0	59.0	23.1	15.6	-	1.8	.4	.1
West North Central.....	2,693	100.0	70.3	20.1	9.4	-	-	.1	.1
South Atlantic.....	9,659	100.0	52.5	25.7	9.5	-	11.9	.1	.3
East South Central.....	8,531	100.0	68.9	19.0	7.7	-	3.6	-	.8
West South Central.....	21,055	100.0	51.5	12.0	2.2	-	33.2	.8	.3
Mountain.....	3,209	100.0	37.9	32.4	17.8	-	11.6	-	.3
Pacific ¹									
TON-MILES		(Millions of ton-miles)							
United States, total.....	36,397	100.0	61.8	13.8	3.7	-	20.3	.2	.2
Shipments originating from—									
New England.....	617	100.0	44.1	46.8	5.2	0.1	.2	3.5	.1
Middle Atlantic.....	3,358	100.0	59.2	28.9	6.8	.1	4.8	.2	-
East North Central.....	6,446	100.0	71.6	17.7	6.3	-	3.9	.4	.1
West North Central.....	1,281	100.0	80.6	15.3	3.8	.1	-	.1	.1
South Atlantic.....	3,106	100.0	60.6	25.1	5.1	-	8.4	.4	.4
East South Central.....	4,291	100.0	81.0	12.3	3.9	-	1.9	-	.9
West South Central.....	15,327	100.0	50.3	6.0	1.1	-	42.5	.1	-
Mountain.....	1,971	100.0	76.0	10.1	7.3	-	6.6	-	-
Pacific ¹									

¹No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 9. **Tons and Ton-Miles of Shipments—Geographic Division of Destination and of Origin: 1963**

Geographic division of origin	Tons and ton-miles	Percent distribution by geographic division of destination									
		All divisions	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific ¹
TONS OF SHIPMENTS	(Thousands of tons)										
United States, total.....	79,916	100.0	5.0	19.6	22.9	5.4	19.8	7.9	12.5	0.9	6.0
Shipments originating from—											
New England.....	1,791	100.0	41.3	29.1	12.7	2.3	7.2	2.8	3.3	—	1.3
Middle Atlantic.....	10,678	100.0	9.9	49.7	18.1	2.0	14.8	1.9	1.7	.1	1.8
East North Central.....	22,300	100.0	1.5	13.8	42.8	6.8	25.8	4.2	3.2	.3	1.6
West North Central.....	2,693	100.0	.8	9.2	32.2	28.5	3.7	6.3	11.1	3.8	4.4
South Atlantic.....	9,659	100.0	3.6	23.3	13.7	2.1	46.0	7.6	2.1	.1	1.5
East South Central.....	8,531	100.0	2.0	15.8	14.3	4.4	19.6	31.0	6.8	.7	5.4
West South Central.....	21,055	100.0	5.6	13.2	14.1	5.2	10.1	7.2	36.6	1.2	6.8
Mountain.....	3,209	100.0	3.9	5.2	4.4	4.1	1.9	1.0	7.5	7.9	64.1
Pacific ²											
TON-MILES	(Millions of ton-miles)										
United States, total.....	36,397	100.0	8.0	22.6	17.3	5.8	15.4	5.8	8.3	1.6	15.2
Shipments originating from—											
New England.....	617	100.0	7.1	14.8	25.6	7.9	13.6	7.5	13.4	.2	9.9
Middle Atlantic.....	3,358	100.0	7.9	22.0	26.5	5.9	12.5	4.3	6.6	.6	13.7
East North Central.....	6,446	100.0	3.2	16.7	19.8	8.5	24.0	5.4	9.6	1.5	11.3
West North Central.....	1,281	100.0	2.0	17.9	22.9	13.0	5.5	5.9	12.1	6.0	14.7
South Atlantic.....	3,106	100.0	5.6	20.0	14.7	5.0	30.9	6.2	6.2	.4	11.0
East South Central.....	4,291	100.0	3.5	30.0	9.9	4.1	12.4	10.0	6.0	1.8	22.3
West South Central.....	15,327	100.0	11.3	24.8	16.6	4.3	12.2	5.3	8.4	1.2	15.9
Mountain.....	1,971	100.0	16.6	19.6	13.5	7.4	6.9	3.2	9.0	5.0	18.8
Pacific ²											

¹Shipments to Alaska and Hawaii from the 48 conterminous States and the District of Columbia are included.

²No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 10. Tons and Ton-Miles of Shipments—Means of Transport and Employment Size of Establishment: 1963

Employment size of establishment	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
Total.....	79,916	100.0	54.2	23.4	9.5	-	12.3	0.4	0.2
Number of employees—									
Under 20 employees.....	5,674	100.0	78.3	12.5	8.9	-	-	.3	-
20 to 99 employees.....	9,364	100.0	24.6	33.8	37.8	-	2.9	.6	.3
100 to 499 employees.....	22,401	100.0	52.2	23.7	8.5	0.1	14.3	.8	.4
500 employees and over.....	42,477	100.0	58.4	22.5	3.9	-	14.9	.1	.2
TON-MILES	(Millions of ton-miles)								
Total.....	36,397	100.0	61.8	13.8	3.7	-	20.3	.2	.2
Number of employees—									
Under 20 employees.....	1,050	100.0	87.9	7.5	4.4	-	-	.2	-
20 to 99 employees.....	2,881	100.0	47.8	24.3	16.8	.1	9.9	.7	.4
100 to 499 employees.....	9,293	100.0	62.7	16.7	4.0	.1	16.1	.3	.1
500 employees and over.....	23,173	100.0	62.0	11.6	1.9	-	24.2	.1	.2

TABLE 11. Tons of Shipments—Distance Shipped and Employment Size of Establishment: 1963

Employment size of establishment	Tons (thousands)	Percent distribution by distance of shipment								
		All distances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
Total tons.....	79,916	100.0	20.7	14.6	18.0	10.0	7.1	16.9	8.1	4.6
Number of employees—										
Under 20 employees.....	5,674	100.0	21.4	8.9	65.4	2.8	.4	1.0	.1	-
20 to 99 employees.....	9,364	100.0	38.7	20.4	11.5	5.7	4.4	13.2	3.7	2.4
100 to 499 employees.....	22,401	100.0	22.7	17.0	14.2	10.3	8.3	19.7	4.3	3.5
500 employees and over.....	42,477	100.0	15.5	12.8	15.1	11.9	7.9	18.3	12.2	6.3

TABLE 12. **Tons of Shipments—Distance Shipped and Production Area of Origin: 1963**

Production Area of origin	Tons (thousands)	Percent distribution by distance of shipment							
		All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
TONS OF SHIPMENTS									
Total.....	79,916	100.0	20.7	14.6	18.0	17.1	16.9	8.1	4.6
Production Areas ¹ —									
1.....	713	100.0	57.4	18.4	5.7	3.4	10.4	3.6	1.1
4.....	2,947	100.0	45.4	18.2	6.6	12.3	13.7	2.8	1.0
5.....	3,881	100.0	38.9	18.6	11.0	11.8	14.3	3.4	2.0
10.....	2,636	100.0	6.9	9.7	21.8	46.7	9.9	1.9	3.1
11.....	2,855	100.0	21.3	18.2	17.2	33.6	7.8	.8	1.1
12.....	768	100.0	18.4	20.4	11.8	38.3	6.1	4.0	1.0
15.....	3,625	100.0	37.8	22.7	15.6	11.7	10.7	.5	1.0
18.....	2,344	100.0	32.4	7.2	21.1	17.1	17.3	.9	4.0
21.....	7,252	100.0	24.5	10.0	6.0	3.9	17.8	35.2	2.6
25.....	928	100.0	65.4	4.3	.4	15.0	4.6	2.4	7.9
Balance of Production Areas.....	8,313	100.0	23.9	17.4	15.1	23.8	11.3	2.1	6.4
SMSA's outside Production Areas.....	15,380	100.0	13.1	13.6	15.0	21.6	24.1	8.6	4.0
Balance of United States.....	28,274	100.0	13.4	14.3	26.6	13.5	18.3	7.2	6.7

¹For description of Production Areas, see map in appendix C.

TABLE 13. **Tons and Ton-Miles of Shipments—Area of Destination and of Origin: 1963**

Area of origin	Tons and ton-miles	Percent distribution by area of destination			
		All areas of destination	Production Areas	SMSA's outside Production Areas	Areas outside SMSA's
TONS OF SHIPMENTS	(Thousands of tons)				
United States, total.....	79,916	100.0	47.3	17.3	35.4
In Production Areas.....	36,262	100.0	59.1	13.0	27.9
In SMSA's outside Production Areas.....	15,380	100.0	28.3	25.6	46.1
Outside of SMSA's.....	28,274	100.0	42.7	18.1	39.2
TON-MILES	(Millions of ton- miles)				
United States, total.....	36,397	100.0	46.7	18.1	35.2
In Production Areas.....	14,814	100.0	60.4	16.0	23.6
In SMSA's outside Production Areas.....	7,761	100.0	30.5	23.6	45.9
Outside of SMSA's.....	13,822	100.0	41.2	17.2	41.6

Shipper Group 8

Drugs, Paints, and Other Chemical Products

Data for Shipper Group 8 are based on a probability sample of 50,547 shipments reported by 405 establishments. The shipper group has been divided into four subgroups which can be closely related to industries classified in the Standard Industrial Classification (SIC). (This is the system of industrial classification developed over a period of years by experts on classification in government and private industry under the guidance of the Bureau of the Budget.) The subgroup and related SIC industries are as follows:

Shipper Subgroup 081.—Drugs

- SIC 2831.—Biological products
- SIC 2833.—Medicinal chemicals and botanical products
- SIC 2834.—Pharmaceutical preparations

Shipper Subgroup 082.—Soap, detergents, perfume, cosmetics and other toilet preparations

- SIC 2841.—Soap and other detergents, except specialty cleaners
- SIC 2842.—Specialty cleaning, polishing, and sanitation preparations, except soap and detergents
- SIC 2843.—Surface active agents, finishing agents, sulfonated oils and assistants
- SIC 2844.—Perfumes, cosmetics, and other toilet preparations

Shipper Subgroup 083.—Paint and allied products

- SIC 2851.—Paints, varnishes, lacquers, and enamels
- SIC 2852.—Putty, calking compounds, and allied products

Shipper Subgroup 084.—Gum and wood chemicals, agricultural chemicals and miscellaneous chemical products

- SIC 2861.—Gum and wood chemicals
- SIC 2871.—Fertilizers
- SIC 2872.—Fertilizers, mixing only
- SIC 2873.—Agricultural pesticides
- SIC 2879.—Agricultural chemicals, n.e.c.
- SIC 2891.—Glue and gelatin
- SIC 2892.—Explosives
- SIC 2893.—Printing ink
- SIC 2894.—Fatty acids
- SIC 2899.—Chemicals and chemical preparations, n.e.c.

Commodities primary to these industries are classified in the following Transportation Commodity Classifications (TCC):¹

TCC 283.—Drugs and medicines (incl. biological products, medicinal chemicals, botanical products, and pharmaceutical preparations)

TCC 284.—Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations

TCC 285.—Paints, varnishes, lacquers, enamels, and allied products

TCC 286.—Gum and wood chemicals

TCC 287.—Agricultural chemicals

TCC 289.—Miscellaneous chemical products

Data for these commodities are included in the Commodity Series chapter: Commodity Group 28, Chemicals and Allied Products.

Because the data are based on a probability sample, they are subject to sampling variability. The term "sampling variability" refers to the differences that would be expected between results of a sample survey and results that would have been obtained from a complete enumeration of plants and shipping documents. Estimates of sampling variability for Shipper Group 8 on total tons and on key items, are shown below:

Item	Estimated tons based on sample (thousands)	Sampling variability (percent)
Total tons.....	60,318	10.3
SHIPPER SUBGROUPS		
081 Drugs.....	2,090	16.5
082 Soap, detergents, perfume, cosmetics and other toilet preparations.....	9,479	16.1
083 Paint and allied products.....	5,093	8.7
084 Gum and wood chemicals, agricultural chemicals and miscellaneous chemical products.....	43,656	12.7
MEANS OF TRANSPORT		
Rail.....	25,383	11.9
Motor carrier.....	20,962	9.1
Private truck.....	11,989	34.2
Water.....	1,350	33.7
Other.....	634	20.5
ORIGIN OF SHIPMENT (Geographic Division)		
New England.....	535	20.9
Middle Atlantic.....	5,897	17.5
East North Central.....	15,266	17.0
West North Central.....	2,707	33.9
South Atlantic.....	21,777	25.5
East and West South Central.....	7,769	40.8
Mountain and Pacific.....	6,367	27.0

¹See *Commodity Classification for Transportation Statistics, 1963, Executive Office of the President, Bureau of the Budget.*

TABLE 1. Tons and Ton-Miles of Shipments—Means of Transport and Shipper Subgroup: 1963

Shipper subgroup	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
8 Drugs, paints, and other chemical products.....	60,318	100.0	42.0	34.8	19.9	0.1	2.2	0.6	0.4
081 Drugs.....	2,090	100.0	22.0	61.7	3.9	.2	7.8	4.4	-
082 Soap, detergents, perfume, cosmetics and other toilet preparations.....	9,479	100.0	21.7	70.8	3.6	.2	1.3	1.8	.6
083 Paint and allied products.....	5,093	100.0	8.6	62.3	19.5	-	8.8	.7	.1
084 Gum and wood chemicals, agricultural chemicals and miscellaneous chemical products.	43,656	100.0	51.5	22.4	24.2	.1	1.4	.1	.3
TON-MILES	(Millions of ton-miles)								
8 Drugs, paints, and other chemical products.....	23,145	100.0	61.5	24.3	7.3	.2	5.4	.9	.4
081 Drugs.....	1,556	100.0	31.4	40.0	1.4	.3	22.9	4.0	-
082 Soap, detergents, perfume, cosmetics and other toilet preparations.....	3,605	100.0	36.9	54.2	2.0	.5	3.2	2.6	.6
083 Paint and allied products.....	1,859	100.0	15.7	56.6	11.5	-	15.3	.8	.1
084 Gum and wood chemicals, agricultural chemicals and miscellaneous chemical products.	16,125	100.0	75.2	12.4	8.6	.1	3.1	.2	.4

TABLE 2. Tons of Shipments—Means of Transport and Distance Shipped: 1963

Distance shipped ¹	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
All distances.....	60,318	100.0	42.0	34.8	19.9	0.1	2.2	0.6	0.4
Under 50 miles.....	10,459	100.0	23.0	39.5	36.6	-	.4	.3	.2
50 to 99 miles.....	8,589	100.0	23.4	39.5	36.5	-	-	.5	.1
100 to 199 miles.....	10,107	100.0	27.3	45.5	26.3	.1	.1	.3	.4
200 to 299 miles.....	6,482	100.0	38.3	41.3	19.6	-	-	.7	.1
300 to 399 miles.....	4,740	100.0	45.7	41.5	7.5	-	4.1	1.0	.2
400 to 499 miles.....	2,453	100.0	50.2	38.7	9.0	-	.6	1.0	.5
500 to 599 miles.....	2,353	100.0	62.9	29.5	3.6	.3	.1	1.0	2.6
600 to 799 miles.....	4,183	100.0	59.8	29.7	3.8	-	4.5	1.2	1.0
800 to 999 miles.....	6,234	100.0	75.8	10.1	3.1	.4	10.2	.2	.2
1,000 to 1,999 miles.....	1,981	100.0	82.0	12.7	1.9	.1	2.7	.5	.1
1,200 to 1,499 miles.....	1,542	100.0	85.5	10.6	.3	-	2.8	.8	-
1,500 to 1,999 miles.....	544	100.0	57.5	31.4	2.4	1.3	3.1	4.3	-
2,000 miles and over.....	651	100.0	55.9	17.1	2.2	.3	22.4	2.0	.1

NOTE: Percent distributions by ton-miles are about the same as those for tons because data are grouped in mileage blocks.

¹Distances of shipments to foreign destinations are calculated only to the American port of exit.

TABLE 3. Tons and Ton-Miles of Shipments—Means of Transport and Weight: 1963

Weight	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
Total.....	142,998	100.0	46.5	33.4	17.6	-	1.5	0.6	0.4
Shipments—									
Under 1,000 pounds.....	1,547	100.0	2.0	83.6	6.4	0.3	.3	7.0	.4
Under 50 pounds.....	76	100.0	.2	20.2	2.4	.8	-	76.1	.3
50 to 99 pounds.....	78	100.0	1.1	75.4	5.0	.6	-	17.5	.4
100 to 199 pounds.....	168	100.0	2.5	85.5	5.9	.7	.4	4.8	.2
200 to 499 pounds.....	550	100.0	2.5	86.7	6.3	.4	.3	3.3	.5
500 to 999 pounds.....	675	100.0	1.8	88.6	7.1	.1	.3	1.7	.4
1,000 to 9,999 pounds.....	3,947	100.0	1.8	65.2	30.6	-	.8	1.0	.6
1,000 to 1,999 pounds.....	823	100.0	2.8	80.0	14.5	.1	.7	1.5	.4
2,000 to 2,999 pounds.....	662	100.0	1.7	74.5	20.6	-	.7	1.1	1.4
3,000 to 4,999 pounds.....	881	100.0	1.6	63.7	32.5	.1	.8	.3	1.0
5,000 to 9,999 pounds.....	1,581	100.0	1.4	54.4	42.0	-	.9	1.1	.2
10,000 to 29,999 pounds.....	6,427	100.0	3.6	48.6	45.6	.1	1.0	.5	.6
10,000 to 19,999 pounds.....	3,075	100.0	1.4	35.1	61.6	-	1.3	.3	.3
20,000 to 29,999 pounds.....	3,352	100.0	5.7	61.0	30.8	.2	.8	.7	.8
30,000 to 59,999 pounds.....	12,579	100.0	21.9	50.8	25.9	-	.8	.2	.4
30,000 to 39,999 pounds.....	6,146	100.0	7.9	57.5	33.0	.1	.8	.3	.4
40,000 to 59,999 pounds.....	6,433	100.0	35.3	44.3	19.1	-	.8	.1	.4
60,000 pounds and over.....	18,498	100.0	91.5	5.3	.3	-	2.4	.3	.2
TON-MILES	(Millions of ton- miles)								
Total.....	116,838	100.0	65.4	23.0	7.0	.1	3.4	.8	.3
Shipments—									
Under 1,000 pounds.....	582	100.0	4.4	80.7	2.3	1.1	.3	10.6	.6
Under 50 pounds.....	39	100.0	.3	15.3	.7	1.7	-	81.8	.2
50 to 99 pounds.....	37	100.0	3.7	74.7	1.4	1.1	-	18.8	.3
100 to 199 pounds.....	76	100.0	6.1	81.5	3.2	1.5	.4	6.9	.4
200 to 499 pounds.....	202	100.0	6.2	83.8	2.1	1.6	.3	5.5	.5
500 to 999 pounds.....	228	100.0	3.2	90.1	2.5	.3	.3	2.8	.8
1,000 to 9,999 pounds.....	1,046	100.0	4.1	72.1	18.2	.2	1.7	3.1	.6
1,000 to 1,999 pounds.....	258	100.0	6.2	82.2	6.2	.1	.8	4.0	.5
2,000 to 2,999 pounds.....	182	100.0	3.8	80.3	8.5	-	1.6	4.8	1.0
3,000 to 4,999 pounds.....	225	100.0	3.1	74.9	17.5	.6	1.8	.9	1.2
5,000 to 9,999 pounds.....	381	100.0	3.4	59.7	31.4	-	2.3	3.0	.2
10,000 to 29,999 pounds.....	1,388	100.0	9.6	58.2	26.7	.8	2.2	2.0	.5
10,000 to 19,999 pounds.....	564	100.0	4.6	51.8	39.2	-	3.3	.7	.4
20,000 to 29,999 pounds.....	824	100.0	13.0	62.5	18.1	1.4	1.5	2.9	.6
30,000 to 59,999 pounds.....	3,820	100.0	41.0	40.0	15.1	.1	3.2	.2	.4
30,000 to 39,999 pounds.....	1,712	100.0	18.5	54.8	23.3	.2	2.4	.3	.5
40,000 to 59,999 pounds.....	2,108	100.0	59.3	28.0	8.5	-	3.9	-	.3
60,000 pounds and over.....	10,002	100.0	92.2	3.1	.3	-	4.1	.1	.2

NOTE: Because of rounding, detail may not add to total.

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 4. **Tons of Shipments—Means of Transport,
Distance Shipped, and Weight: 1963**

Distance and weight	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS									
Total.....	¹ 42,998	100.0	46.5	33.4	17.6	-	1.5	0.6	0.4
Under 200 miles.....	19,534	100.0	28.0	41.5	29.5	-	.2	.5	.3
Under 1,000 pounds.....	724	100.0	.6	81.6	11.7	-	.2	5.5	.4
1,000 to 9,999 pounds.....	2,343	100.0	.5	58.8	39.5	-	.4	.4	.4
10,000 to 29,999 pounds.....	4,309	100.0	.5	42.1	56.2	-	.5	.1	.6
30,000 pounds and over.....	12,158	100.0	44.9	35.4	19.2	-	-	.3	.2
200 to 399 miles.....	9,064	100.0	44.8	38.4	14.1	-	2.0	.5	.2
Under 1,000 pounds.....	313	100.0	1.7	89.6	2.2	0.2	.2	5.7	.4
1,000 pounds and over.....	8,751	100.0	46.3	36.6	14.5	-	2.1	.3	.2
400 to 599 miles.....	3,849	100.0	62.0	29.9	5.1	.2	.4	.9	1.5
Under 1,000 pounds.....	196	100.0	3.3	87.4	.8	.1	.5	7.3	.6
1,000 pounds and over.....	3,653	100.0	65.1	26.9	5.3	.2	.4	.5	1.6
600 to 999 miles.....	7,065	100.0	74.9	16.6	3.9	-	4.0	.4	.2
Under 1,000 pounds.....	196	100.0	2.6	86.2	1.3	.6	.3	8.6	.4
1,000 pounds and over.....	6,869	100.0	77.1	14.6	3.9	-	4.1	.2	.1
1,000 miles and over.....	3,486	100.0	79.9	13.2	1.0	.3	4.2	1.3	.1
Under 1,000 pounds.....	118	100.0	7.9	68.8	2.7	2.4	.3	17.1	.8
1,000 pounds and over.....	3,368	100.0	82.3	11.3	1.0	.2	4.3	.8	.1

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 5. Tons and Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons and ton-miles	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
	TONS OF SHIPMENTS	(Thousands of tons)								
	Total products shipped.....	60,318	100.0	42.0	34.8	19.9	0.1	2.2	0.6	0.4
	Total primary commodities ¹ ..	49,206	100.0	41.1	35.6	20.0	.1	2.2	.7	.3
	Total other commodities ² ...	11,112	100.0	46.5	31.0	19.2	.1	2.4	.4	.4
	Selected Primary Commodities ³									
283	Drugs and medicines (inc. biological products, medicinal chemicals, botanical products and pharmaceutical preparations)....	1,616	100.0	17.3	64.7	4.1	.2	8.2	5.5	-
284	Soap and detergents, cleaning preparations, perfumes, cosmetics and other toilet preparations.....	8,386	100.0	20.4	73.9	1.6	-	1.5	2.0	.6
2841	Soap and other detergents (exc. specialty cleansers).....	5,793	100.0	22.6	72.3	1.4	-	1.6	1.3	.8
2842	Specialty cleaning, polishing, and sanitation preparations (exc. soap and detergents)....	1,274	100.0	19.7	72.9	3.0	-	-	4.4	-
2844	Perfumes, cosmetics and other toilet preparations.....	1,310	100.0	11.0	82.2	1.2	.2	2.4	2.7	.3
285	Paints, varnishes, lacquers, enamels, and allied products....	4,392	100.0	7.4	66.6	20.8	-	4.2	.9	.1
287	Agricultural chemicals.....	27,827	100.0	52.1	17.8	27.6	.1	2.0	-	.4
2871	Fertilizers.....	25,507	100.0	55.9	16.5	25.2	.1	2.1	-	.2
2879	Agricultural chemicals, n.e.c., and rodenticides, insecticides, fungicides, herbicides, plant hormones and pesticides.....	2,315	100.0	10.9	32.6	54.1	-	.1	-	2.3
289	Miscellaneous chemical products..	5,687	100.0	40.4	40.2	18.6	-	.2	.5	.1
2892	Explosives.....	527	100.0	30.0	45.4	24.5	-	-	-	.1
2899	Chemical products, n.e.c.....	4,820	100.0	44.3	39.0	15.9	-	.2	.5	.1
	TON-MILES	(Millions of ton-miles)								
	Total.....	23,145	100.0	61.5	24.3	7.3	.2	5.4	.9	.4
	Total primary commodities ¹ ..	18,393	100.0	59.0	25.2	8.1	.2	6.1	1.0	.4
	Total other commodities ² ...	4,752	100.0	70.6	20.9	4.4	.3	2.7	.6	.5
	Selected Primary Commodities ³									
283	Drugs and medicines (inc. biological products, medicinal chemicals, botanical products and pharmaceutical preparations)....	1,205	100.0	28.0	41.3	1.4	.4	24.0	4.9	-
284	Soap and detergents, cleaning preparations, perfumes, cosmetics and other toilet preparations.....	3,379	100.0	33.9	56.8	1.3	.1	4.8	2.6	.5
2841	Soap and other detergents (exc. specialty cleansers).....	2,115	100.0	35.4	54.9	.9	-	6.4	1.6	.8

See footnotes at end of table.

TABLE 5. Tons and Ton-Miles of Shipments—Means of Transport and Commodity: 1963—Continued

TCC code	Commodity	Tons and ton-miles	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
		(Millions of ton-miles)								
2842	Specialty cleaning, polishing, and sanitation preparations (exc. soap and detergents)....	491	100.0	40.4	51.0	1.8	-	0.1	6.7	-
2844	Perfumes, cosmetics and other toilet preparations.....	772	100.0	25.6	65.7	2.3	0.3	3.3	2.7	0.1
285	Paints, varnishes, lacquers, enamels, and allied products....	1,515	100.0	13.1	63.1	13.2	-	9.4	1.1	.1
287	Agricultural chemicals.....	9,531	100.0	77.2	6.7	10.8	.2	4.7	-	.4
2871	Fertilizers.....	8,802	100.0	81.2	4.7	8.7	.2	5.1	-	.1
2879	Agricultural chemicals, n.e.c., and rodenticides, insecticides, fungicides, herbicides, plant hormones and pesticides.....	723	100.0	27.9	31.2	35.8	-	.1	-	5.0
289	Miscellaneous chemical products..	1,868	100.0	56.6	31.3	10.6	-	.5	.8	.2
2892	Explosives.....	155	100.0	32.2	39.0	28.5	.1	-	.1	.1
2899	Chemical products, n.e.c.....	1,637	100.0	61.2	29.8	7.6	-	.5	.7	.2

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 283, 284, 285, 286, 287, and 289.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 6. Tons of Shipments—Distance Shipped and Commodity: 1963

TCC code	Commodity	Tons (thousands)	Percent distribution by distance of shipment								
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
	Total products shipped.	60,318	100.0	31.5	16.8	10.7	7.9	4.1	21.2	5.8	2.0
	Total primary commodities ¹	49,206	100.0	31.3	17.4	11.6	7.6	4.3	20.9	4.9	2.0
	Total other commodities ²	11,112	100.0	32.3	14.1	7.2	9.0	3.2	22.3	10.0	1.9
	Selected Primary Commodities ³										
283	Drugs and medicines (inc. biological products, medicinal chemicals, botanical products and pharmaceutical preparations).....	1,616	100.0	22.1	8.0	8.1	3.9	5.1	30.7	5.7	16.4
284	Soap and detergents, cleaning preparations, perfumes, cosmetics and other toilet preparations.	8,386	100.0	22.6	17.3	14.1	12.6	5.9	19.2	4.2	4.1
2841	Soap and other detergents (exc. specialty cleansers).....	5,793	100.0	24.8	16.0	15.0	14.7	5.7	17.1	3.8	2.9
2842	Specialty cleaning, polishing, and sanitation preparations, (exc. soap and detergents).....	1,274	100.0	19.1	25.3	14.9	7.8	3.5	23.6	1.9	3.9
2844	Perfumes, cosmetics and other toilet preparations.....	1,310	100.0	16.0	15.5	9.1	8.0	9.0	24.8	8.3	9.3
285	Paints, varnishes, lacquers, enamels, and allied products.....	4,392	100.0	27.2	18.0	11.5	11.5	5.2	22.7	3.0	.9
287	Agricultural chemicals.....	27,827	100.0	38.4	19.3	8.8	4.0	2.1	20.7	6.2	.5
2871	Fertilizers.....	25,507	100.0	40.4	18.1	7.5	3.4	2.0	21.8	6.5	.3
2879	Agricultural chemicals, n.e.c., and rodenticides, insecticides, fungicides, herbicides, plant hormones and pesticides....	2,315	100.0	15.9	32.8	23.9	10.7	3.1	7.9	3.1	2.6
289	Miscellaneous chemical products.....	5,687	100.0	22.3	13.2	22.8	16.1	8.6	13.9	1.2	1.9
2892	Explosives.....	527	100.0	30.2	28.1	6.2	9.2	1.8	22.5	1.4	.6
2899	Chemical products, n.e.c.	4,820	100.0	19.8	11.2	25.3	17.5	9.7	13.2	1.1	2.2

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 283, 284, 285, 286, 287, and 289.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 7. Tons of Shipments—Means of Transport, Geographic Division of Origin, and Distance Shipped: 1963

Geographic division and distance	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
United States, total.....	60,318	100.0	42.0	34.8	19.9	0.1	2.2	0.6	0.4
Under 200 miles.....	29,155	100.0	24.6	41.6	33.0	-	.2	.4	.2
200 to 399 miles.....	11,222	100.0	41.5	41.3	14.5	-	1.8	.8	.1
400 to 599 miles.....	4,806	100.0	56.5	34.2	6.4	.1	.3	1.0	1.5
600 to 999 miles.....	10,417	100.0	69.3	18.0	3.4	.3	7.9	.6	.5
1,000 miles and over.....	4,718	100.0	76.7	14.7	1.5	.2	5.5	1.3	.1
New England and Middle Atlantic.....	6,432	100.0	13.2	69.1	9.6	.1	4.7	2.5	.8
Under 200 miles.....	3,232	100.0	7.1	74.8	15.1	-	1.3	1.5	.2
200 to 399 miles.....	1,070	100.0	9.3	79.8	7.5	-	-	3.0	.4
400 to 599 miles.....	458	100.0	8.0	75.5	3.6	.1	-	4.3	8.5
600 to 999 miles.....	744	100.0	31.9	60.9	1.5	.1	2.2	3.2	.2
1,000 miles and over.....	928	100.0	26.6	39.7	2.6	.2	26.7	4.0	.2
East North Central and West									
North Central.....	17,973	100.0	35.9	47.8	13.6	-	2.0	.4	.3
Under 200 miles.....	7,650	100.0	19.6	54.0	25.9	-	-	.3	.2
200 to 399 miles.....	5,502	100.0	46.0	45.4	5.3	-	2.8	.5	-
400 to 599 miles.....	2,101	100.0	50.1	41.9	5.6	.3	.5	.6	1.0
600 to 999 miles.....	1,802	100.0	41.6	44.6	2.0	-	11.0	.3	.5
1,000 miles and over.....	918	100.0	68.8	28.1	1.5	.1	.6	.9	-
South Atlantic, East South Central and West South Central....	29,546	100.0	58.6	18.3	20.4	.1	2.1	.1	.4
Under 200 miles.....	13,970	100.0	38.0	29.5	32.2	-	-	-	.3
200 to 399 miles.....	3,390	100.0	50.1	17.6	31.9	-	-	.1	.3
400 to 599 miles.....	1,915	100.0	81.6	10.7	6.4	-	.1	.6	.6
600 miles and over.....	10,271	100.0	85.3	4.7	3.2	.3	6.0	.1	.4
Mountain and Pacific ¹	6,367	100.0	11.9	39.8	45.6	.3	.8	1.6	-
Under 200 miles.....	4,303	100.0	3.4	33.3	62.2	.2	.1	.8	-
200 to 399 miles.....	1,260	100.0	25.9	54.6	13.9	-	3.3	2.3	-
400 miles and over.....	804	100.0	35.0	51.8	7.4	.9	.5	4.4	-

¹No data were obtained on shipments originating in Alaska and Hawaii.

CENSUS GEOGRAPHIC DIVISIONS

New England—Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut
 Middle Atlantic—New York, New Jersey, Pennsylvania
 East North Central—Ohio, Indiana, Illinois, Michigan, Wisconsin
 West North Central—Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, Kansas
 South Atlantic—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida
 East South Central—Kentucky, Tennessee, Alabama, Mississippi
 West South Central—Arkansas, Louisiana, Oklahoma, Texas
 Mountain—Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada
 Pacific—Washington, Oregon, California, Alaska, Hawaii

TABLE 8. Tons and Ton-Miles of Shipments—Means of Transport and Geographic Division of Origin: 1963

Geographic division of origin	Tons and ton-miles	. Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
United States, total.....	60,318	100.0	42.0	34.8	19.9	0.1	2.2	0.6	0.4
Shipments originating from—									
New England.....	535	100.0	32.0	38.9	22.5	.1	4.6	1.9	-
Middle Atlantic.....	5,897	100.0	11.4	71.7	8.5	.1	4.8	2.6	.9
East North Central.....	15,266	100.0	36.0	47.7	13.6	-	2.4	.3	-
West North Central.....	2,707	100.0	35.3	48.2	13.3	.3	.2	1.1	1.6
South Atlantic.....	21,777	100.0	62.7	22.3	11.4	.1	2.9	.1	.5
East South Central.....	7,769	100.0	47.0	7.2	45.6	-	-	.1	.1
West South Central.....		100.0	47.0	7.2	45.6	-	-	.1	.1
Mountain.....	6,367	100.0	11.9	39.8	45.6	.3	.8	1.6	-
Pacific ¹		100.0	11.9	39.8	45.6	.3	.8	1.6	-
TON-MILES	(Millions of ton-miles)								
United States, total.....	23,145	100.0	61.5	24.3	7.3	.2	5.4	.9	.4
Shipments originating from—									
New England.....	400	100.0	63.6	21.2	3.5	.2	9.0	2.5	-
Middle Atlantic.....	2,595	100.0	19.7	54.1	3.5	.2	17.9	3.6	1.0
East North Central.....	4,791	100.0	50.7	38.8	5.5	-	4.5	.5	-
West North Central.....	1,133	100.0	38.9	52.5	5.0	.4	.7	.9	1.6
South Atlantic.....	10,518	100.0	82.7	8.3	3.4	.2	4.9	.1	.4
East South Central.....	2,393	100.0	63.7	8.2	27.7	-	-	.2	.2
West South Central.....		100.0	63.7	8.2	27.7	-	-	.2	.2
Mountain.....	1,315	100.0	28.5	46.0	19.1	1.1	1.5	3.8	-
Pacific ¹		100.0	28.5	46.0	19.1	1.1	1.5	3.8	-

¹No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 9. Tons and Ton-Miles of Shipments—Geographic Division of Destination and of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by geographic division of destination									
		All divisions	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific ¹
TONS OF SHIPMENTS	(Thousands of tons)										
United States, total.....	60,318	100.0	2.1	10.5	22.1	9.4	25.1	5.3	12.7	2.1	10.7
Shipments originating from—											
New England.....	535	100.0	25.0	21.4	16.0	1.8	11.9	2.4	7.5	-	14.0
Middle Atlantic.....	5,897	100.0	10.1	48.3	11.0	3.4	15.6	2.0	2.8	1.0	5.8
East North Central.....	15,266	100.0	1.0	9.0	57.6	10.0	11.0	4.2	4.7	1.1	1.4
West North Central.....	2,707	100.0	1.3	1.9	25.5	37.1	3.2	7.5	14.5	3.4	5.6
South Atlantic.....	21,777	100.0	1.5	8.2	11.1	10.5	53.6	4.7	9.5	.2	.7
East South Central.....	7,769	100.0	.3	2.2	8.7	8.1	8.3	15.3	53.4	2.2	1.5
West South Central.....		100.0									
Mountain.....	6,367	100.0	.1	-	.4	.5	-	-	2.5	11.8	84.7
Pacific ²		100.0									
TON-MILES	(Millions of ton-miles)										
United States, total.....	23,145	100.0	2.3	7.3	19.0	17.0	17.1	4.8	15.9	3.8	12.8
Shipments originating from—											
New England.....	400	100.0	2.8	4.3	14.6	2.6	11.5	2.7	14.9	.1	46.5
Middle Atlantic.....	2,595	100.0	4.4	9.9	13.1	7.7	16.6	3.3	8.2	4.3	32.5
East North Central.....	4,791	100.0	2.2	10.3	26.2	10.9	19.6	5.1	13.0	4.4	8.3
West North Central.....	1,133	100.0	3.3	4.0	20.6	14.5	6.6	7.1	18.5	5.6	19.8
South Atlantic.....	10,518	100.0	2.1	6.8	19.6	24.6	20.6	5.3	16.7	.8	3.5
East South Central.....	2,393	100.0	1.3	6.9	16.4	17.3	12.2	5.6	27.7	5.0	7.6
West South Central.....		100.0									
Mountain.....	1,315	100.0	1.7	.2	3.3	3.0	.1	.1	10.5	22.6	58.5
Pacific ²		100.0									

¹Shipments to Alaska and Hawaii from the 48 conterminous States and the District of Columbia are included.²No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 10. Tons and Ton-Miles of Shipments—Means of Transport and Employment Size of Establishment: 1963

Employment size of establishment	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
Total.....	60,318	100.0	42.0	34.8	19.9	0.1	2.2	0.6	0.4
Number of employees—									
Under 20.....	5,189	100.0	7.9	26.3	65.0	-	-	.7	.1
20 to 99.....	17,444	100.0	29.5	40.1	26.9	-	2.7	.4	.4
100 to 499.....	28,194	100.0	53.0	32.2	13.2	.1	.5	.7	.3
500 and over.....	9,491	100.0	51.5	37.2	2.1	.3	7.6	.7	.6
TON-MILES	(Millions of ton-miles)								
Total.....	23,145	100.0	61.5	24.3	7.3	.2	5.4	.9	.4
Number of employees—									
Under 20.....	1,072	100.0	17.0	25.6	55.2	-	-	2.0	.2
20 to 99.....	4,785	100.0	45.7	34.8	8.9	-	9.1	.7	.8
100 to 499.....	11,085	100.0	70.3	21.7	5.6	.2	.9	1.0	.3
500 and over.....	6,203	100.0	65.7	20.5	.9	.4	11.6	.6	.3

TABLE 11. Tons of Shipments—Distance Shipped and Employment Size of Establishment: 1963

Employment size of establishment	Tons (thousands)	Percent distribution by distance of shipment								
		All distances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
Total tons.....	60,318	100.0	31.5	16.8	10.7	7.9	4.1	21.2	5.8	2.0
Number of employees—										
Under 20.....	5,189	100.0	44.3	24.4	15.0	7.1	.7	6.8	.6	1.1
20 to 99.....	17,444	100.0	42.6	20.3	9.2	7.6	4.3	10.8	3.3	1.9
100 to 499.....	28,194	100.0	28.7	16.3	11.2	9.2	4.1	22.5	6.6	1.4
500 and over.....	9,491	100.0	12.9	7.6	9.7	4.7	5.4	44.3	11.1	4.3

TABLE 12. Tons of Shipments—Distance Shipped and
Production Area of Origin: 1963

Production Area of origin	Tons (thousands)	Percent distribution by distance of shipment							
		All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
TONS OF SHIPMENTS									
Total.....	60,318	100.0	31.5	16.8	10.7	12.0	21.2	5.8	2.0
Production Areas ¹ --									
1.....	90	100.0	26.4	20.8	3.6	1.2	38.6	6.1	3.3
3.....	710	100.0	48.6	19.5	9.0	3.6	13.2	3.4	2.7
4.....	2,801	100.0	41.8	10.1	11.3	6.1	12.6	10.4	7.7
5.....	725	100.0	18.8	16.0	22.7	8.0	23.0	2.7	8.8
6.....	2,077	100.0	38.4	33.9	10.0	9.6	6.9	.6	.6
11.....	4,133	100.0	20.9	15.7	15.4	30.7	10.4	5.7	1.2
13.....	422	100.0	26.2	7.5	13.9	26.4	21.5	2.5	2.0
14.....	695	100.0	11.4	5.0	33.0	24.8	23.4	.2	2.2
15.....	2,639	100.0	31.1	14.8	14.9	12.0	22.0	3.0	2.2
18.....	1,141	100.0	3.7	6.9	22.3	26.2	29.2	10.8	.9
24.....	1,059	100.0	27.3	26.9	7.8	15.5	15.1	2.4	5.0
25.....	2,145	100.0	49.6	7.7	2.6	29.3	9.3	.3	1.2
Balance of Production Areas.....	4,712	100.0	52.6	10.9	6.0	7.3	14.0	4.4	4.8
SMSA's outside Production Areas.	13,938	100.0	33.4	28.8	9.7	8.7	13.8	4.5	1.1
Balance of United States.....	23,031	100.0	26.8	11.7	10.3	9.6	32.4	8.0	1.2

¹For description of Production Areas, see map in appendix C.

TABLE 13. Tons and Ton-Miles of Shipments—Area of Destination
and of Origin: 1963

Area of origin	Tons and ton-miles	Percent distribution by area of destination			
		All areas of destination	Production Areas	SMSA's outside Production Areas	Areas outside SMSA's
TONS OF SHIPMENTS	(Thousands of tons)				
United States, total.....	60,318	100.0	34.7	23.5	41.8
In Production Areas.....	23,349	100.0	53.7	23.8	22.5
In SMSA's outside Production Areas.....	13,938	100.0	16.1	25.3	58.6
Outside of SMSA's.....	23,031	100.0	26.6	22.0	51.4
TON-MILES	(Millions of ton- miles)				
United States, total.....	23,145	100.0	38.1	26.3	35.6
In Production Areas.....	8,157	100.0	46.6	33.1	20.3
In SMSA's outside Production Areas.....	4,091	100.0	35.5	30.8	33.7
Outside of SMSA's.....	10,897	100.0	32.7	19.4	47.9

Shipper Group 9 Petroleum and Coal Products

Data for Shipper Group 9 are based on a probability sample of 33,187 shipments reported by 278 establishments. The shipper group has been divided into two subgroups which can be closely related to industries classified in the Standard Industrial Classification (SIC). (This is the system of industrial classification developed over a period of years by experts on classification in government and private industry under the guidance of the Bureau of the Budget.) The subgroup and related SIC industries are as follows:

Shipper Subgroup 091.—Products of petroleum refining

SIC 2911.—Petroleum refining

Shipper Subgroup 092.—Paving and roofing materials and miscellaneous petroleum and coal products

SIC 2951.—Paving mixtures and blocks

SIC 2952.—Asphalt felts and coatings

SIC 2992.—Lubricating oils and greases

SIC 2999.—Products of petroleum and coal, n.e.c.

Commodities primary to these industries are classified in the following Transportation Commodity Classifications (TCC):¹

TCC 291.—Products of petroleum refining

TCC 295.—Paving and roofing materials

TCC 299.—Miscellaneous petroleum and coal products

Data for these commodities are included in the Commodity Series chapter: Commodity Group 29, Petroleum and Coal Products.

Because the data are based on a probability sample, they are subject to sampling variability. The term "sampling variability" refers to the differences that would be expected between results of a sample survey and results that would have been obtained from a complete enumeration of plants and shipping documents. Estimates of sampling variability for Shipper Group 9 on total tons and on key items, are shown below:

Item	Estimated tons based on sample (thousands)	Sampling variability (percent)
Total tons.....	398,066	5.2
SHIPPER SUBGROUPS		
091 Products of petroleum refining.	373,462	5.3
092 Paving and roofing materials and miscellaneous petroleum and coal products.....	24,604	19.8
MEANS OF TRANSPORT		
Rail.....	31,983	9.6
Motor carrier.....	40,527	8.4
Private truck.....	31,533	9.5
Water.....	292,196	6.5
Other.....	1,827	26.7
ORIGIN OF SHIPMENT (Geographic Division)		
New England and Middle Atlantic.....	56,079	11.1
East North Central.....	26,440	9.7
West North Central.....	10,555	19.7
South Atlantic.....	17,108	18.8
East South Central.....	6,604	42.8
West South Central.....	226,383	8.5
Mountain.....	7,008	35.5
Pacific.....	47,889	13.1

¹See *Commodity Classification for Transportation Statistics, 1963, Executive Office of the President, Bureau of the Budget.*

TABLE 1. Tons and Ton-Miles of Shipments—Means of Transport and Shipper Subgroup: 1963

Shipper subgroup	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
9 Petroleum and coal products.....	398,066	100.0	8.0	10.2	7.9	-	73.5	0.4	-
091 Products of petroleum refining.	373,462	100.0	7.0	9.1	6.7	-	76.9	.3	-
092 Paving and roofing materials and miscellaneous petroleum and coal products.....	24,604	100.0	23.7	26.3	26.7	-	20.4	2.8	0.1
TON-MILES	(Millions of ton-miles)								
9 Petroleum and coal products.....	274,436	100.0	4.3	1.7	1.1	-	92.8	.1	-
091 Products of petroleum refining.	269,373	100.0	3.3	1.4	.9	-	94.3	.1	-
092 Paving and roofing materials and miscellaneous petroleum and coal products.....	5,063	100.0	58.8	18.6	15.8	-	6.3	.4	.1

TABLE 2. Tons of Shipments—Means of Transport and Distance Shipped: 1963

Distance shipped ¹	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
All distances.....	398,066	100.0	8.0	10.2	7.9	-	73.5	0.4	-
Under 50 miles.....	58,095	100.0	4.8	26.6	21.6	-	45.4	1.6	-
50 to 99 miles.....	48,702	100.0	6.2	22.6	18.2	-	52.9	.1	-
100 to 199 miles.....	40,470	100.0	17.8	19.8	15.4	-	46.7	.2	0.1
200 to 299 miles.....	22,581	100.0	21.3	15.1	10.5	-	52.1	1.0	-
300 to 399 miles.....	17,786	100.0	16.2	6.2	3.7	-	73.9	-	-
400 to 499 miles.....	6,526	100.0	37.6	7.7	7.9	-	40.6	6.1	.1
500 to 599 miles.....	5,951	100.0	32.1	3.9	2.5	-	61.3	.1	.1
600 to 799 miles.....	19,977	100.0	20.0	.9	.7	-	78.3	.1	-
800 to 1,199 miles.....	62,572	100.0	3.0	.7	.1	-	96.2	-	-
1,200 miles and over.....	115,406	100.0	.9	.1	-	-	98.9	.1	-

NOTE: Percent distributions by ton-miles are about the same as those for tons because data are grouped in mileage blocks.

¹Distances of shipments to foreign destinations are calculated only to the American port of exit.

TABLE 3. Tons and Ton-Miles of Shipments—Means of Transport and Weight: 1963

Weight	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS		(Thousands of tons)							
Total.....	111,393	100.0	17.2	18.2	10.1	-	53.9	0.6	-
Shipments—									
Under 1,000 pounds.....	108	100.0	1.9	68.7	28.3	0.1	.1	.8	0.1
Under 200 pounds.....	10	100.0	2.4	59.6	32.0	.8	.1	4.4	.7
200 to 499 pounds.....	39	100.0	1.7	72.1	26.0	-	-	.2	-
500 to 999 pounds.....	59	100.0	2.0	68.1	29.1	-	.2	.6	-
1,000 to 9,999 pounds.....	745	100.0	.9	40.7	42.1	-	15.3	.5	.5
10,000 to 29,999 pounds.....	2,764	100.0	3.6	47.8	41.3	-	7.2	-	.1
30,000 to 59,999 pounds.....	24,026	100.0	11.0	56.9	25.8	-	6.2	-	.1
30,000 to 39,999 pounds.....	6,843	100.0	3.2	58.1	33.5	-	5.0	.1	.1
40,000 to 49,999 pounds.....	10,516	100.0	6.9	60.7	23.9	-	8.5	-	-
50,000 to 59,999 pounds.....	6,667	100.0	25.2	49.8	20.9	-	4.0	-	.1
60,000 to 89,999 pounds.....	7,047	100.0	70.8	7.1	10.1	-	11.9	-	.1
60,000 to 69,999 pounds.....	3,059	100.0	54.8	9.8	15.9	-	19.3	-	.2
70,000 to 89,999 pounds.....	3,988	100.0	83.3	5.0	5.6	-	6.1	-	-
90,000 pounds and over.....	76,703	100.0	14.8	5.7	3.7	-	74.9	.9	-
TON-MILES		(Millions of ton-miles)							
Total.....	134,791	100.0	20.1	6.8	2.9	-	70.2	-	-
Shipments—									
Under 1,000 pounds.....	36	100.0	5.7	83.2	8.3	.1	.4	2.2	.1
Under 200 pounds.....	4	100.0	4.3	78.9	7.9	1.2	.2	6.8	.7
200 to 499 pounds.....	12	100.0	3.7	89.7	5.8	.1	.2	.5	-
500 to 999 pounds.....	20	100.0	7.3	79.7	9.9	-	.6	2.5	-
1,000 to 9,999 pounds.....	179	100.0	2.8	49.4	20.1	-	26.1	1.2	.4
10,000 to 29,999 pounds.....	558	100.0	9.1	39.7	21.4	-	29.7	.1	-
30,000 to 59,999 pounds.....	5,064	100.0	17.6	30.1	11.9	-	40.3	-	.1
30,000 to 39,999 pounds.....	1,406	100.0	8.4	42.2	17.5	-	31.8	.1	-
40,000 to 49,999 pounds.....	2,385	100.0	12.6	25.8	9.6	-	52.0	-	-
50,000 to 59,999 pounds.....	1,273	100.0	37.2	25.0	9.9	-	27.7	-	.2
60,000 to 89,999 pounds.....	2,706	100.0	67.9	2.3	1.7	-	28.0	-	.1
60,000 to 69,999 pounds.....	1,378	100.0	47.3	2.4	1.8	-	48.4	-	.1
70,000 to 89,999 pounds.....	1,328	100.0	89.3	2.3	1.5	-	6.9	-	-
90,000 pounds and over.....	26,248	100.0	16.1	1.6	.8	-	81.5	-	-

NOTE: Because of rounding, detail may not add to total.

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 4. **Tons of Shipments—Means of Transport,
Distance Shipped, and Weight: 1963**

Distance and weight	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS									
Total.....	111,393	100.0	17.2	18.2	10.1	-	53.9	0.6	-
Under 200 miles.....	75,264	100.0	11.6	23.0	13.5	-	51.0	.9	-
Under 1,000 pounds.....	55	100.0	.2	49.8	49.6	-	-	.3	0.1
1,000 to 9,999 pounds.....	522	100.0	.2	31.8	52.2	-	15.3	.3	.2
10,000 to 29,999 pounds.....	2,033	100.0	.9	48.3	49.2	-	1.5	-	.1
30,000 to 59,999 pounds.....	18,762	100.0	6.9	63.4	29.5	-	.1	-	.1
60,000 to 89,999 pounds.....	3,004	100.0	61.5	13.5	22.2	-	2.8	-	-
90,000 pounds and over.....	50,888	100.0	10.9	7.5	5.2	-	75.1	1.3	-
200 to 399 miles.....	10,580	100.0	36.8	18.3	7.8	-	37.0	-	.1
Under 30,000 pounds.....	456	100.0	6.8	63.2	23.4	-	5.8	.2	.6
30,000 pounds and over.....	10,124	100.0	38.2	16.3	7.1	-	38.4	-	-
400 miles and over.....	25,549	100.0	25.4	3.9	1.0	-	69.7	-	-
Under 1,000 pounds.....	31	100.0	4.9	89.1	3.8	0.2	.5	1.5	-
1,000 to 59,999 pounds.....	3,607	100.0	27.8	21.6	5.6	-	44.8	.1	.1
60,000 pounds and over.....	21,911	100.0	25.0	.9	.2	-	73.9	-	-

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 5. Tons and Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons and ton-miles	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
	TONS OF SHIPMENTS	(Thousands of tons)								
	Total products shipped.....	398,066	100.0	8.0	10.2	7.9	-	73.5	0.4	-
	Total primary commodities ¹	370,915	100.0	6.9	10.4	7.8	-	74.5	.4	-
	Total other commodities ² ..	27,151	100.0	22.9	6.6	9.1	-	60.3	1.1	-
	Selected Primary Commodities ³									
291	Products of petroleum refining..	360,031	100.0	6.4	9.5	7.1	-	76.6	.4	-
2911	Products of petroleum refining (exc. liquefied petroleum gases and petroleum coke and breeze).....	354,644	100.0	6.0	9.3	6.6	-	77.7	.4	-
2912	Liquefied petroleum and coal gases.....	5,347	100.0	27.5	23.8	37.1	-	11.3	-	0.3
	TON-MILES	(Millions of ton-miles)								
	Total.....	274,436	100.0	4.3	1.7	1.1	-	92.8	.1	-
	Total primary commodities ¹	251,896	100.0	3.4	1.7	1.1	-	93.7	.1	-
	Total other commodities ² ..	22,540	100.0	14.4	1.2	.9	-	83.2	.3	-
	Selected Primary Commodities ³									
291	Products of petroleum refining..	249,540	100.0	3.0	1.5	.9	-	94.5	.1	-
2911	Products of petroleum refining (exc. liquefied petroleum gases and petroleum coke and breeze).....	247,993	100.0	2.8	1.5	.8	-	94.8	.1	-
2912	Liquefied petroleum and coal gases.....	1,539	100.0	42.0	6.8	9.9	-	41.3	-	-

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 291, 295, and 299.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 6. Tons of Shipments—Distance Shipped and
Commodity: 1963

TCC code	Commodity	Tons (thousands)	Percent distribution by distance of shipment								
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
	Total products shipped.	398,066	100.0	26.8	10.2	5.7	4.5	1.6	11.1	33.2	6.9
	Total primary com- modities ¹	370,915	100.0	27.4	10.4	5.7	4.4	1.7	11.4	31.7	7.3
	Total other com- modities ²	27,151	100.0	19.2	6.4	5.5	5.8	1.3	7.6	52.7	1.5
	Selected Primary Commodities ³										
291	Products of petroleum refining.....	360,031	100.0	27.2	10.1	5.3	4.2	1.4	11.5	32.8	7.5
2911	Products of petroleum refining (exc. liquefied petroleum gases and petroleum coke and breeze).....	354,644	100.0	26.9	10.0	5.3	4.2	1.4	11.5	33.1	7.6
2912	Liquefied petroleum and coal gases.....	5,347	100.0	46.9	16.5	6.0	5.6	5.2	13.7	4.3	1.8

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 291, 295, and 299.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 7 **Tons of Shipments—Means of Transport, Geographic Division of Origin, and Distance Shipped: 1963**

Geographic division and distance	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
United States, total.....	398,066	100.0	8.0	10.2	7.9	-	73.5	0.4	-
Under 200 miles.....	147,267	100.0	8.9	23.4	18.8	-	48.2	.7	-
200 to 399 miles.....	40,367	100.0	19.0	11.2	7.5	-	61.7	.6	-
400 to 599 miles.....	12,477	100.0	35.0	5.9	5.3	-	50.4	3.3	0.1
600 to 999 miles.....	38,379	100.0	14.2	1.3	.5	-	83.9	.1	-
1,000 miles and over.....	159,576	100.0	.9	.2	-	-	98.9	-	-
New England and Middle Atlantic.....	56,079	100.0	9.9	14.8	8.3	-	67.0	-	-
Under 200 miles.....	51,287	100.0	7.6	14.0	8.4	-	70.0	-	-
200 to 399 miles.....	3,736	100.0	26.8	23.2	6.3	-	43.6	-	.1
400 miles and over.....	1,056	100.0	61.0	22.7	11.8	-	4.4	.1	-
East North Central and West									
North Central.....	36,995	100.0	19.3	29.7	13.8	-	35.3	1.9	-
Under 200 miles.....	28,615	100.0	12.3	34.7	16.7	-	33.9	2.4	-
200 to 399 miles.....	5,742	100.0	30.5	13.9	4.1	-	51.4	.1	-
400 miles and over.....	2,638	100.0	70.8	9.8	3.6	-	15.4	.1	.3
South Atlantic, East South									
Central and West South Central.....	250,095	100.0	5.9	4.9	4.3	-	84.6	.3	-
Under 200 miles.....	36,807	100.0	11.3	25.6	23.1	-	39.5	.4	.1
200 to 399 miles.....	21,502	100.0	16.9	9.1	8.2	-	64.7	1.1	-
400 to 599 miles.....	7,967	100.0	32.9	4.4	6.3	-	51.3	5.1	-
600 to 999 miles.....	29,383	100.0	11.8	1.1	.1	-	86.9	.1	-
1,000 miles and over.....	154,436	100.0	.6	.1	-	-	99.3	-	-
Mountain and Pacific ¹	54,897	100.0	8.3	16.4	19.9	-	55.1	.3	-
Under 200 miles.....	30,558	100.0	4.8	26.1	32.9	-	35.6	.6	-
200 miles and over.....	24,339	100.0	12.6	4.3	3.7	-	79.4	-	-

¹No data were obtained on shipments originating in Alaska and Hawaii.

CENSUS GEOGRAPHIC DIVISIONS

New England—Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut
Middle Atlantic—New York, New Jersey, Pennsylvania
East North Central—Ohio, Indiana, Illinois, Michigan, Wisconsin
West North Central—Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, Kansas
South Atlantic—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida
East South Central—Kentucky, Tennessee, Alabama, Mississippi
West South Central—Arkansas, Louisiana, Oklahoma, Texas
Mountain—Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada
Pacific—Washington, Oregon, California, Alaska, Hawaii

TABLE 8. Tons and Ton-Miles of Shipments—Means of Transport and Geographic Division of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
United States, total.....	398,066	100.0	8.0	10.2	7.9	-	73.5	0.4	-
Shipments originating from—									
New England.....	} 56,079	100.0	9.9	14.8	8.3	-	67.0	-	-
Middle Atlantic.....		100.0	15.5	26.8	12.1	-	45.6	-	-
East North Central.....	26,440	100.0	28.9	37.0	18.1	-	9.5	6.4	0.1
West North Central.....	10,555	100.0	4.7	17.3	10.6	-	67.3	-	.1
South Atlantic.....	17,108	100.0	36.0	17.2	17.4	-	27.4	1.7	.3
East South Central.....	6,604	100.0	5.1	3.6	3.5	-	87.5	.3	-
West South Central.....	226,383	100.0	40.4	26.7	32.9	-	-	-	-
Mountain.....	7,008	100.0	3.6	14.9	18.0	-	63.1	.4	-
Pacific ¹	47,889	100.0							
TON-MILES	(Millions of ton-miles)								
United States, total.....	274,436	100.0	4.3	1.7	1.1	-	92.8	.1	-
Shipments originating from—									
New England.....	} 4,727	100.0	25.5	17.8	8.0	-	48.6	-	.1
Middle Atlantic.....		100.0	28.1	15.7	6.4	-	49.7	.1	-
East North Central.....	3,900	100.0	60.5	23.1	10.9	-	4.5	.8	.2
West North Central.....	1,589	100.0	5.1	10.5	5.2	-	79.1	-	.1
South Atlantic.....	3,257	100.0	46.6	9.2	6.3	-	37.2	.6	.1
East South Central.....	1,411	100.0	2.4	.6	.5	-	96.3	.2	-
West South Central.....	237,990	100.0	70.1	13.8	16.1	-	-	-	-
Mountain.....	1,782	100.0	3.4	3.0	3.2	-	90.4	-	-
Pacific ¹	19,780	100.0							

¹No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 9. Tons and Ton-Miles of Shipments—Geographic Division of Destination and of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by geographic division of destination									
		All divisions	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific ¹
TONS OF SHIPMENTS	(Thousands of tons)										
United States, total....	398,066	100.0	11.0	29.9	7.2	4.2	22.8	4.0	8.0	1.8	11.1
Shipments originating from—											
New England.....	56,079	100.0	7.1	75.2	2.4	.1	14.8	.1	.3	-	-
Middle Atlantic.....		100.0	.1	4.2	67.1	15.3	4.5	7.6	1.0	.1	.1
East North Central.....	26,440	100.0	-	-	15.0	78.9	.5	.8	2.9	.7	1.2
West North Central.....	10,555	100.0	11.2	42.6	.5	-	45.1	.6	-	-	-
South Atlantic.....	17,108	100.0	3.2	4.7	13.4	6.4	16.0	50.2	6.1	-	-
East South Central.....	6,604	100.0	16.6	28.5	2.9	1.3	31.9	4.5	13.4	.5	.4
West South Central.....	226,383	100.0	-	-	3.3	13.9	.1	.8	4.2	75.3	2.4
Mountain.....	7,008	100.0	-	7.1	-	-	.7	-	.1	1.9	90.2
Pacific ²	47,889	100.0									
TON-MILES	(Millions of ton-miles)										
United States, total....	274,436	100.0	21.2	36.1	3.0	1.3	29.3	2.0	2.1	.6	4.4
Shipments originating from—											
New England.....	4,727	100.0	12.0	56.4	11.3	1.3	13.1	.9	3.8	.2	1.0
Middle Atlantic.....		100.0	.5	11.1	47.4	12.4	8.6	11.3	5.5	1.3	1.9
East North Central.....	3,900	100.0	-	.1	24.5	50.0	2.6	2.8	5.6	2.4	12.0
West North Central.....	1,589	100.0	18.0	23.7	.4	.2	56.4	1.1	.2	-	-
South Atlantic.....	3,257	100.0	10.0	9.6	15.3	6.2	19.7	34.9	4.3	-	-
East South Central.....	1,411	100.0	23.9	36.5	2.1	.7	32.2	1.8	2.1	.1	.6
West South Central.....	237,990	100.0	.2	.3	12.8	27.6	.4	4.4	7.0	40.2	7.1
Mountain.....	1,782	100.0	.2	41.6	.1	-	3.9	-	.5	1.9	51.8
Pacific ²	19,780	100.0									

¹Shipments to Alaska and Hawaii from the 48 conterminous States and the District of Columbia are included.²No data were obtained on shipments originated in Alaska and Hawaii.

TABLE 10. Tons and Ton-Miles of Shipments—Means of Transport and Employment Size of Establishment: 1963

Employment size of establishment	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
Total.....	398,066	100.0	8.0	10.2	7.9	-	73.5	0.4	-
Number of employees—									
Under 20.....	3,171	100.0	33.3	36.3	30.2	-	-	-	0.2
20 to 99.....	18,608	100.0	21.3	32.3	43.3	-	2.8	.1	.2
100 to 499.....	83,592	100.0	17.1	19.2	15.8	-	46.2	1.7	-
500 and over.....	292,695	100.0	4.3	5.9	3.2	-	86.5	.1	-
TON-MILES	(Millions of ton-miles)								
Total.....	274,436	100.0	4.3	1.7	1.1	-	92.8	.1	-
Number of employees—									
Under 20.....	1,293	100.0	89.0	5.4	5.6	-	-	-	-
20 to 99.....	3,105	100.0	49.5	20.4	28.9	-	.7	.3	.2
100 to 499.....	30,734	100.0	14.8	6.3	4.8	-	73.3	.8	-
500 and over.....	239,304	100.0	1.9	.8	.3	-	96.9	.1	-

TABLE 11. Tons of Shipments—Distance Shipped and Employment Size of Establishment: 1963

Employment size of establishment	Tons (thousands)	Percent distribution by distance of shipment								
		All distances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
Total tons.....	398,066	100.0	26.8	10.2	5.7	4.5	1.6	11.1	33.2	6.9
Number of employees—										
Under 20.....	3,171	100.0	56.1	7.6	3.4	.1	-	22.9	-	9.9
20 to 99.....	18,608	100.0	53.2	19.4	11.2	6.1	2.6	7.1	.3	.1
100 to 499.....	83,592	100.0	34.8	18.0	13.1	3.0	3.4	16.8	8.6	2.3
500 and over.....	292,695	100.0	22.6	7.4	3.2	4.8	1.1	9.6	42.7	8.6

TABLE 12. **Tons of Shipments—Distance Shipped and
Production Area of Origin: 1963**

Production Area of origin	Tons (thousands)	Percent distribution by distance of shipment							
		All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
TONS OF SHIPMENTS									
Total.....	398,066	100.0	26.8	10.2	5.7	6.1	11.1	33.2	6.9
Production Areas ¹ —									
5.....	47,470	100.0	80.6	12.7	1.0	4.8	.8	.1	—
11.....	541	100.0	29.0	34.2	16.4	12.7	5.3	1.3	1.1
15.....	11,038	100.0	34.8	44.7	9.6	4.8	5.7	.3	.1
18.....	8,430	100.0	34.0	37.1	23.7	4.1	.9	.2	—
21.....	180,631	100.0	2.0	1.3	1.7	4.7	12.2	66.0	12.1
25.....	20,076	100.0	43.3	14.5	1.3	18.2	4.3	—	18.4
Balance of Production Areas....	40,355	100.0	59.9	13.8	10.3	3.0	12.4	.3	.3
SMSA's Outside Production Areas	40,593	100.0	21.3	17.9	11.9	10.1	13.2	21.4	4.2
Balance of United States.....	48,932	100.0	33.7	16.8	13.5	7.4	20.5	8.1	—

¹For description of Production Areas, see map in appendix C.

TABLE 13. **Tons and Ton-Miles of Shipments—Area of Destination
and of Origin: 1963**

Area of origin	Tons and ton-miles	Percent distribution by area of destination			
		All areas of destination	Production Areas	SMSA's outside Production Areas	Areas outside SMSA's
TONS OF SHIPMENTS	(Thousands of tons)				
United States, total.....	398,066	100.0	59.9	21.0	19.1
In Production Areas.....	308,541	100.0	67.1	19.7	13.2
In SMSA's outside Production Areas....	40,593	100.0	37.4	25.0	37.6
Outside of SMSA's.....	48,932	100.0	32.3	26.2	41.5
TON-MILES	(Millions of ton- miles)				
United States, total.....	274,436	100.0	72.8	17.4	9.8
In Production Areas.....	236,139	100.0	75.0	17.3	7.7
In SMSA's outside Production Areas....	21,882	100.0	62.1	17.6	20.3
Outside of SMSA's.....	16,415	100.0	56.9	18.1	25.0

Shipper Group 10

Rubber and Plastics Products

Data for Shipper Group 10 are based on a probability sample of 52,027 shipments reported by 418 establishments. The shipper group has been divided into four subgroups which can be closely related to industries classified in the Standard Industrial Classification (SIC). (This is the system of industrial classification developed over a period of years by experts on classification in government and private industry under the guidance of the Bureau of the Budget.) The subgroup and related SIC industries are as follows:

Shipper Subgroup 101.—Tires and inner tubes
SIC 3011.—Tires and inner tubes

Shipper Subgroup 102.—Rubber footwear
SIC 3021.—Rubber footwear

Shipper Subgroup 103.—Miscellaneous rubber products and reclaimed rubber
SIC 3031.—Reclaimed rubber
SIC 3069.—Fabricated rubber products, n.e.c.

Shipper Subgroup 104.—Miscellaneous plastics products
SIC 3079.—Miscellaneous plastics products

Commodities primary to these industries are classified in the following Transportation Commodity Classifications (TCC):¹

TCC 301.—Tires and inner tubes
TCC 302.—Rubber footwear (including rubber and plastic combined)
TCC 303.—Reclaimed rubber
TCC 306.—Miscellaneous fabricated rubber products
TCC 307.—Miscellaneous plastic products

Data for these commodities are included in the Commodity Series chapter: Commodity Group 30, Rubber and Miscellaneous Plastics Products.

Because the data are based on a probability sample, they are subject to sampling variability. The term "sampling variability" refers to the differences that would be expected between results of a sample survey and results that would have been obtained from a complete enumeration of plants and shipping documents. Estimates of sampling variability for Shipper Group 10 on total tons and on key items, are shown below:

Item	Estimated tons based on sample (thousands)	Sampling variability (percent)
Total tons.....	8,884	3.4
SHIPPER SUBGROUPS		
101 Tires and inner tubes.....	3,503	2.8
102 Rubber footwear.....	156	10.2
103 Miscellaneous rubber products and reclaimed rubber.....	2,892	10.6
104 Miscellaneous plastics products.....	2,333	8.2
MEANS OF TRANSPORT		
Rail.....	2,264	5.3
Motor carrier.....	5,638	4.5
Private truck.....	770	10.5
Other.....	212	8.0
ORIGIN OF SHIPMENT (Geographic Division)		
New England.....	1,007	8.7
Middle Atlantic.....	1,761	15.9
East North Central.....	3,625	4.2
West North Central.....	551	7.6
South Atlantic.....	345	14.7
East South Central.....	626	7.8
West South Central.....	465	32.0
Mountain and Pacific.....	504	26.3

¹ See *Commodity Classification for Transportation Statistics, 1963, Executive Office of the President, Bureau of the Budget.*

TABLE 1. **Tons and Ton-Miles of Shipments—Means of Transport and Shipper Subgroup: 1963**

Shipper subgroup	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
10 Rubber and plastics products.....	8,884	100.0	25.4	63.4	8.7	0.2	0.3	1.8	0.2
101 Tires and inner tubes.....	3,503	100.0	41.6	54.2	3.6	-	-	.5	.1
102 Rubber footwear.....	156	100.0	22.5	67.0	3.1	-	.3	7.0	.1
103 Miscellaneous rubber products and reclaimed rubber.....	2,892	100.0	21.7	64.9	11.2	.2	.3	1.7	-
104 Miscellaneous plastics products	2,333	100.0	6.2	75.3	13.5	.3	.6	3.5	.6
TON-MILES	(Millions of ton-miles)								
10 Rubber and plastics products.....	4,602	100.0	37.0	52.4	5.9	.3	.8	3.3	.3
101 Tires and inner tubes.....	1,982	100.0	55.0	41.6	2.8	-	-	.6	-
102 Rubber footwear.....	86	100.0	36.6	50.8	.6	.1	.5	11.3	.1
103 Miscellaneous rubber products and reclaimed rubber.....	1,479	100.0	30.5	57.0	7.4	.5	1.0	3.6	-
104 Miscellaneous plastics products	1,055	100.0	12.6	66.6	9.9	.6	2.0	7.3	1.0

TABLE 2. **Tons of Shipments—Means of Transport and Distance Shipped: 1963**

Distance shipped ¹	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
All distances.....	8,884	100.0	25.4	63.4	8.7	0.2	0.3	1.8	0.2
Under 50 miles.....	793	100.0	9.2	68.9	20.5	-	.1	1.1	.2
50 to 99 miles.....	869	100.0	22.6	65.6	10.0	-	.1	.9	.8
100 to 199 miles.....	1,178	100.0	15.9	74.8	8.4	-	.1	.7	.1
200 to 299 miles.....	1,029	100.0	14.6	72.7	11.6	.1	-	.9	.1
300 to 399 miles.....	862	100.0	20.6	73.5	4.6	.2	-	.9	.2
400 to 499 miles.....	746	100.0	21.6	67.7	8.2	.2	-	2.2	.1
500 to 599 miles.....	689	100.0	35.1	56.8	6.8	.2	-	1.0	.1
600 to 799 miles.....	986	100.0	33.3	57.9	6.7	.2	-	1.9	-
800 to 999 miles.....	592	100.0	33.2	58.1	5.7	.3	.1	2.6	-
1,000 to 1,199 miles.....	296	100.0	40.3	47.6	7.6	.2	.2	4.0	.1
1,200 to 1,499 miles.....	247	100.0	38.8	49.3	5.0	.2	4.1	2.5	.1
1,500 to 1,999 miles.....	283	100.0	46.7	39.3	6.5	.3	.2	7.0	-
2,000 miles or more.....	314	100.0	65.5	22.3	.5	.9	2.5	6.9	1.4

NOTE: Percent distributions by ton-miles are about the same as those for tons because data are grouped in mileage blocks.

¹Distances of shipments to foreign destinations are calculated only to the American port of exit.

TABLE 3. Tons and Ton-Miles of Shipments—Means of Transport and Weight: 1963

Weight	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
Total.....	17,221	100.0	26.1	62.8	8.8	0.1	0.3	1.7	0.2
Shipments—									
Under 1,000 pounds.....	719	100.0	2.2	82.8	6.7	.9	.1	7.0	.3
Under 50 pounds.....	30	100.0	1.4	32.6	14.1	4.6	-	47.1	.2
50 to 99 pounds.....	34	100.0	2.8	68.7	9.5	2.4	.1	16.4	.1
100 to 199 pounds.....	94	100.0	1.9	80.4	8.1	1.5	.1	7.9	.1
200 to 499 pounds.....	258	100.0	2.9	86.2	5.7	.6	.1	4.1	.4
500 to 999 pounds.....	303	100.0	1.8	87.1	6.0	.5	.1	4.1	.4
1,000 to 9,999 pounds.....	1,794	100.0	3.3	83.9	10.2	.1	.1	1.9	.5
1,000 to 1,999 pounds.....	460	100.0	1.7	86.5	8.1	.1	.2	3.1	.3
2,000 to 2,999 pounds.....	325	100.0	1.7	88.6	7.4	.2	-	2.1	-
3,000 to 4,999 pounds.....	408	100.0	2.5	84.7	10.2	.3	.2	2.0	.1
5,000 to 9,999 pounds.....	601	100.0	5.9	78.8	13.3	-	.1	.7	1.2
10,000 to 29,999 pounds.....	2,111	100.0	18.2	68.2	12.3	-	.1	1.2	-
10,000 to 19,999 pounds.....	883	100.0	17.6	66.5	13.9	-	.1	1.8	.1
20,000 to 29,999 pounds.....	1,228	100.0	18.6	69.4	11.1	-	.1	.8	-
30,000 and over.....	2,597	100.0	54.9	38.5	5.5	-	.6	.5	-
TON-MILES	(Millions of ton-miles)								
Total.....	13,703	100.0	36.8	52.2	6.3	.3	1.0	3.1	.3
Shipments—									
Under 1,000 pounds.....	375	100.0	5.5	76.7	2.9	1.7	.3	12.6	.3
Under 50 pounds.....	14	100.0	2.9	29.9	3.1	8.9	.1	54.9	.2
50 to 99 pounds.....	17	100.0	4.6	64.6	3.2	3.9	.3	23.3	.1
100 to 199 pounds.....	52	100.0	3.6	74.1	3.3	2.7	.1	16.1	.1
200 to 499 pounds.....	139	100.0	8.0	76.8	2.9	1.3	.2	10.5	.3
500 to 999 pounds.....	153	100.0	4.3	83.3	2.8	.9	.3	8.1	.3
1,000 to 9,999 pounds.....	761	100.0	6.9	80.1	5.6	.5	.5	5.2	1.2
1,000 to 1,999 pounds.....	207	100.0	3.8	83.3	3.7	.2	.7	8.0	.3
2,000 to 2,999 pounds.....	138	100.0	4.6	85.6	2.9	.7	-	6.2	-
3,000 to 4,999 pounds.....	162	100.0	5.4	79.2	6.6	1.6	.9	6.3	-
5,000 to 9,999 pounds.....	254	100.0	11.8	75.2	7.8	-	.4	1.6	3.2
10,000 to 29,999 pounds.....	879	100.0	22.6	61.9	12.5	-	.3	2.6	.1
10,000 to 19,999 pounds.....	355	100.0	24.1	59.1	11.2	-	.4	4.9	.3
20,000 to 29,999 pounds.....	524	100.0	21.4	63.7	13.5	-	.3	1.1	-
30,000 and over.....	1,688	100.0	64.8	29.2	4.1	-	1.6	.3	-

NOTE: Because of rounding, detail may not add to total.

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 4. **Tons of Shipments—Means of Transport,
Distance Shipped, and Weight: 1963**

Distance and weight	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS									
Total.....	17,221	100.0	26.1	62.8	8.8	0.1	0.3	1.7	0.2
Under 200 miles.....	2,450	100.0	17.7	69.6	11.7	-	-	.8	.2
Under 1,000 pounds.....	268	100.0	.4	82.0	13.1	.2	-	3.9	.4
1,000 to 9,999 pounds.....	767	100.0	1.7	81.6	15.8	-	.1	.4	.4
10,000 pounds and over.....	1,415	100.0	29.6	60.9	9.1	-	-	.4	-
200 to 399 miles.....	1,466	100.0	19.4	70.4	9.2	.1	-	.8	.1
Under 1,000 pounds.....	139	100.0	1.3	90.5	3.1	1.1	.2	3.3	.5
1,000 pounds and over.....	1,327	100.0	21.3	68.2	9.9	-	-	.5	.1
400 to 599 miles.....	1,113	100.0	30.1	61.4	6.5	.1	-	1.8	.1
Under 1,000 pounds.....	95	100.0	1.2	88.3	1.6	.9	-	7.7	.3
1,000 pounds and over.....	1,018	100.0	32.8	58.8	7.0	-	-	1.3	.1
600 to 999 miles.....	1,240	100.0	30.7	59.7	7.2	.2	-	2.2	-
Under 1,000 pounds.....	110	100.0	2.7	84.5	3.2	1.3	.1	8.0	.2
1,000 pounds and over.....	1,130	100.0	33.4	57.3	7.6	.1	-	1.6	-
1,000 miles and over.....	952	100.0	47.4	39.7	5.4	.4	2.0	4.6	.5
Under 1,000 pounds.....	107	100.0	8.6	67.5	3.4	2.4	.3	17.6	.2
1,000 pounds and over.....	845	100.0	52.3	36.2	5.7	.2	2.2	2.9	.5

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 5. Tons and Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons and ton-miles	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
	TONS OF SHIPMENTS	(Thousands of tons)								
	Total products shipped.....	8,884	100.0	25.4	63.4	8.7	0.2	0.3	1.8	0.2
	Total primary commodities ¹	6,650	100.0	26.2	63.3	8.4	.1	.2	1.7	.1
	Total other commodities ² ..	2,234	100.0	23.4	64.2	9.4	.3	.4	1.9	.4
	Selected Primary Commodities ³									
301	Tires and inner tubes.....	3,181	100.0	42.7	52.4	4.4	-	-	.4	.1
302	Rubber footwear (including rubber and plastic combined).....	134	100.0	19.2	71.9	1.7	-	.2	6.9	.1
306	Miscellaneous fabricated rubber products.....	1,365	100.0	15.0	70.9	11.5	.3	-	2.3	-
307	Miscellaneous plastic products...	1,831	100.0	5.0	76.2	14.2	.2	.8	3.3	.3
	TON-MILES	(Millions of ton-miles)								
	Total.....	4,602	100.0	37.0	52.4	5.9	.3	.8	3.3	.3
	Total primary commodities ¹	3,518	100.0	38.1	51.7	6.3	.2	.6	3.0	.1
	Total other commodities ² ..	1,084	100.0	33.5	55.0	4.5	.6	1.4	4.1	.9
	Selected Primary Commodities ³									
301	Tires and inner tubes.....	1,809	100.0	55.8	40.7	3.1	-	-	.4	-
302	Rubber footwear (including rubber and plastic combined).....	74	100.0	32.5	55.9	.4	.1	.4	10.6	.1
306	Miscellaneous fabricated rubber products.....	755	100.0	23.4	62.1	9.2	.5	-	4.8	-
307	Miscellaneous plastic products...	810	100.0	10.5	67.5	12.0	.4	2.5	6.9	.2

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 301, 302, 303, 306, and 307.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 6. Tons of Shipments—Distance Shipped and
Commodity: 1963

TCC code	Commodity	Tons (thousands)	Percent distribution by distance of shipment								
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
	Total products shipped.	8,884	100.0	18.7	13.3	11.6	9.7	8.4	25.5	6.1	6.7
	Total primary com- modities ¹	6,650	100.0	17.6	12.4	11.2	10.0	9.1	26.7	6.4	6.6
	Total other com- modities ²	2,234	100.0	22.0	15.7	12.7	9.0	6.3	22.0	5.3	7.0
	Selected Primary Commodities ³										
301	Tires and inner tubes.....	3,181	100.0	12.9	10.1	11.2	11.1	10.6	29.6	7.2	7.3
302	Rubber footwear (including rubber and plastic com- bined).....	134	100.0	30.4	9.2	7.3	7.9	7.1	22.2	6.5	9.4
306	Miscellaneous fabricated rubber products.....	1,365	100.0	17.0	14.0	9.4	8.0	8.6	30.1	6.1	6.8
307	Miscellaneous plastic products.....	1,831	100.0	26.7	15.0	12.3	9.1	7.3	18.8	5.2	5.6

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 301, 302, 303, 306, and 307.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 7. Tons of Shipments—Means of Transport, Geographic Division of Origin, and Distance Shipped: 1963

Geographic division and distance	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
United States, total.....	8,884	100.0	25.4	63.4	8.7	0.2	0.3	1.8	0.2
Under 200 miles.....	2,840	100.0	16.0	70.4	12.3	-	.1	.9	.3
200 to 399 miles.....	1,891	100.0	17.3	73.2	8.4	.1	-	.9	.1
400 to 599 miles.....	1,435	100.0	28.1	62.4	7.5	.2	-	1.7	.1
600 to 999 miles.....	1,578	100.0	33.3	58.1	6.3	.2	-	2.1	-
1,000 miles and over.....	1,140	100.0	48.6	38.9	4.8	.4	1.7	5.2	.4
New England and Middle Atlantic.....	2,768	100.0	18.2	67.8	10.0	.2	.7	2.9	.2
Under 200 miles.....	1,211	100.0	9.1	76.8	12.6	.1	.1	1.0	.3
200 to 399 miles.....	414	100.0	11.9	79.4	7.0	.1	-	1.4	.2
400 to 599 miles.....	240	100.0	10.3	65.0	17.5	.3	-	6.9	-
600 to 999 miles.....	573	100.0	28.8	61.7	6.1	.1	-	3.3	-
1,000 miles and over.....	330	100.0	46.8	33.0	5.7	.7	5.5	8.1	.2
East North Central and West North Central.....	4,176	100.0	30.2	60.0	8.2	.1	-	1.4	.1
Under 200 miles.....	1,323	100.0	22.7	64.2	12.2	-	-	.5	.4
200 to 399 miles.....	1,055	100.0	18.9	70.0	10.3	.1	-	.7	-
400 to 599 miles.....	804	100.0	32.6	61.2	5.3	.2	-	.6	.1
600 to 999 miles.....	519	100.0	42.0	52.2	3.4	.2	-	2.2	-
1,000 miles and over.....	475	100.0	59.2	32.1	2.7	.3	-	5.7	-
South Atlantic, East South Central and West South Central.....	1,436	100.0	30.3	62.1	6.2	.1	.1	1.1	.1
Under 200 miles.....	200	100.0	19.6	67.2	10.7	.1	-	2.4	-
200 to 399 miles.....	343	100.0	21.8	71.3	5.9	.1	-	.9	-
400 to 599 miles.....	348	100.0	33.1	62.0	4.1	-	.1	.5	.2
600 to 999 miles.....	347	100.0	31.2	61.4	6.2	.3	.1	.8	-
1,000 miles and over.....	198	100.0	49.1	42.7	5.9	.1	.4	1.7	.1
Mountain and Pacific ¹	504	100.0	12.8	72.7	11.9	.4	.2	.9	1.1
Under 200 miles.....	106	100.0	5.5	79.0	13.1	-	.8	1.1	.5
200 to 999 miles.....	261	100.0	14.6	70.9	13.3	.3	-	.4	.5
1,000 miles and over.....	137	100.0	15.1	71.5	8.2	.8	-	1.6	2.8

¹No data were obtained on shipments originating in Alaska and Hawaii.

CENSUS GEOGRAPHIC DIVISIONS

New England—Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut

Middle Atlantic—New York, New Jersey, Pennsylvania

East North Central—Ohio, Indiana, Illinois, Michigan, Wisconsin

West North Central—Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, Kansas

South Atlantic—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida

East South Central—Kentucky, Tennessee, Alabama, Mississippi

West South Central—Arkansas, Louisiana, Oklahoma, Texas

Mountain—Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada

Pacific—Washington, Oregon, California, Alaska, Hawaii

TABLE 8. Tons and Ton-Miles of Shipments—Means of Transport and Geographic Division of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
United States, total.....	8,884	100.0	25.4	63.4	8.7	0.2	0.3	1.8	0.2
Shipments originating from—									
New England.....	1,007	100.0	23.6	60.2	11.7	.2	.6	3.6	.1
Middle Atlantic.....	1,761	100.0	15.1	72.4	9.0	.1	.7	2.5	.2
East North Central.....	3,625	100.0	28.8	60.1	9.3	.1	—	1.5	.2
West North Central.....	551	100.0	39.4	59.0	.8	.1	—	.7	—
South Atlantic.....	345	100.0	18.1	69.9	10.2	.1	.4	1.1	.2
East South Central.....	626	100.0	40.1	51.1	6.9	.1	—	1.8	—
West South Central.....	465	100.0	26.1	71.2	2.3	.2	—	.2	—
Mountain.....	504	100.0	12.8	72.7	11.9	.4	.2	.9	1.1
Pacific ¹									
TON-MILES	(Millions of ton-miles)								
United States, total.....	4,602	100.0	37.0	52.4	5.9	.3	.8	3.3	.3
Shipments originating from—									
New England.....	532	100.0	39.8	46.4	3.4	.7	2.7	6.8	.2
Middle Atlantic.....	805	100.0	29.2	54.4	8.6	.4	2.4	4.9	.1
East North Central.....	1,743	100.0	42.7	48.6	5.2	.2	—	3.3	—
West North Central.....	262	100.0	47.3	51.0	.5	.1	—	1.1	—
South Atlantic.....	195	100.0	28.0	61.3	7.8	.1	1.0	1.5	.3
East South Central.....	371	100.0	46.0	44.7	7.4	—	—	1.8	.1
West South Central.....	301	100.0	32.5	64.5	2.5	.3	—	.2	—
Mountain.....	393	100.0	16.8	68.7	10.4	.7	—	1.3	2.1
Pacific ¹									

¹No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 9. Tons and Ton-Miles of Shipments—Geographic Division of Destination and of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by geographic division of destination									
		All divisions	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific ¹
TONS OF SHIPMENTS	(Thousands of tons)										
United States, total.....	8,884	100.0	7.3	19.8	30.1	10.1	10.0	5.0	6.9	2.4	8.4
Shipments originating from—											
New England.....	1,007	100.0	29.4	28.0	10.8	10.3	10.2	3.5	2.2	0.8	4.8
Middle Atlantic.....	1,761	100.0	8.6	38.7	21.6	6.2	12.3	4.7	2.9	1.1	3.9
East North Central.....	3,625	100.0	3.4	15.0	44.7	8.8	9.0	4.2	6.0	1.7	7.2
West North Central.....	551	100.0	.3	7.1	40.7	30.6	4.0	4.6	3.9	3.2	5.6
South Atlantic.....	345	100.0	12.3	24.9	15.8	5.5	22.0	7.9	4.4	.9	6.3
East South Central.....	626	100.0	3.6	12.2	23.0	9.7	17.5	12.7	13.8	1.7	5.8
West South Central.....	465	100.0	1.7	6.8	20.4	13.3	5.6	5.0	32.5	7.3	7.4
Mountain.....	504	100.0	.2	4.4	8.2	11.5	1.6	3.4	9.0	12.5	49.2
Pacific ²											
TON-MILES	(Millions of ton-miles)										
United States, total.....	4,602	100.0	3.9	11.7	18.5	11.4	9.8	5.2	10.1	5.0	24.4
Shipments originating from—											
New England.....	532	100.0	3.3	10.9	14.3	19.6	12.9	6.0	6.3	3.0	23.7
Middle Atlantic.....	805	100.0	4.1	7.3	24.0	11.9	10.8	8.2	8.2	4.4	21.1
East North Central.....	1,743	100.0	4.0	12.0	14.5	9.3	9.8	3.9	11.7	4.9	29.9
West North Central.....	262	100.0	.7	14.6	35.8	11.8	6.6	4.7	3.7	5.3	16.8
South Atlantic.....	195	100.0	9.5	12.5	13.2	7.5	10.4	9.1	8.8	2.9	26.1
East South Central.....	371	100.0	6.4	16.1	19.3	8.6	13.9	3.8	11.2	3.4	17.3
West South Central.....	301	100.0	3.8	12.7	25.4	7.4	7.2	2.7	15.4	7.7	17.7
Mountain.....	393	100.0	.8	12.9	15.9	16.5	3.9	5.3	11.7	9.7	23.3
Pacific ²											

¹Shipments to Alaska and Hawaii from the 48 conterminous States and the District of Columbia are included.²No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 10. Tons and Ton-Miles of Shipments—Means of Transport and Employment Size of Establishment: 1963

Employment size of establishment	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS		(Thousands of tons)							
Total.....	8,884	100.0	25.4	63.4	8.7	0.2	0.3	1.8	0.2
Number of employees—									
Under 20 employees.....	301	100.0	1.0	85.8	6.9	.2	-	6.1	-
20 to 99 employees.....	773	100.0	3.7	80.3	12.3	.2	.3	2.3	.9
100 to 499 employees.....	2,457	100.0	13.4	72.6	11.4	.3	-	1.9	.4
500 employees and over.....	5,353	100.0	35.6	55.5	7.0	.1	.4	1.4	-
TON-MILES		(Millions of ton-miles)							
Total.....	4,602	100.0	37.0	52.4	5.9	.3	.8	3.3	.3
Number of employees—									
Under 20 employees.....	140	100.0	1.7	82.8	2.9	.4	-	12.2	-
20 to 99 employees.....	370	100.0	7.9	81.3	4.1	.4	.6	3.4	2.3
100 to 499 employees.....	1,066	100.0	21.5	66.7	6.5	.5	.1	4.5	.2
500 employees and over.....	3,026	100.0	47.7	42.5	6.0	.2	1.1	2.5	-

TABLE 11. Tons of Shipments—Distance Shipped and Employment Size of Establishment: 1963

Employment size of establishment	Tons (thousands)	Percent distribution by distance of shipment								
		All distances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
Total tons.....	8,884	100.0	18.7	13.3	11.6	9.7	8.4	25.5	6.1	6.7
Number of employees—										
Under 20 employees.....	301	100.0	18.6	6.6	7.9	21.8	14.9	23.5	1.9	4.8
20 to 99 employees.....	773	100.0	32.9	13.7	7.5	9.3	7.0	15.0	6.9	7.7
100 to 499 employees.....	2,457	100.0	24.4	13.5	15.5	9.7	5.6	23.3	2.9	5.1
500 employees and over.....	5,353	100.0	14.0	13.5	10.6	9.1	9.5	28.2	7.7	7.4

TABLE 12. **Tons of Shipments—Distance Shipped and
Production Area of Origin: 1963**

Production Area of origin	Tons (thousands)	Percent distribution by distance of shipment							
		All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300, to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
TONS OF SHIPMENTS									
Total.....	8,884	100.0	18.7	13.3	11.6	18.1	25.5	6.1	6.7
Production Areas ¹ —									
1.....	507	100.0	30.2	19.2	8.8	7.0	16.9	10.6	7.3
2.....	301	100.0	23.3	11.9	8.7	9.6	32.4	6.9	7.2
3.....	174	100.0	31.6	14.2	6.3	10.7	20.9	7.1	9.2
4.....	339	100.0	37.5	9.7	10.5	7.9	22.7	3.6	8.1
5.....	640	100.0	30.8	7.8	8.0	9.6	33.8	6.5	3.5
11.....	1,380	100.0	16.1	17.7	10.0	20.7	21.3	6.3	7.9
15.....	301	100.0	11.4	11.8	29.8	20.5	16.0	1.3	9.2
25.....	287	100.0	16.1	3.8	3.5	17.9	25.6	16.7	16.4
Balance of Production Areas.....	1,178	100.0	17.0	8.1	13.2	20.9	29.2	6.1	5.5
SMSA's outside Production Areas.	1,676	100.0	12.7	15.0	10.0	19.2	31.4	7.3	4.4
Balance of United States.....	2,101	100.0	16.4	14.2	14.2	22.5	22.2	3.3	7.2

¹For description of Production Areas, see map in appendix C.

TABLE 13. **Tons and Ton-Miles of Shipments—Area of Destination
and of Origin: 1963**

Area of origin	Tons and ton-miles	Percent distribution by area of destination			
		All areas of destination	Production Areas	SMSA's outside Production Areas	Areas outside SMSA's
TONS OF SHIPMENTS	(Thousands of tons)				
United States, total.....	8,884	100.0	58.5	22.0	19.5
In Production Areas.....	5,107	100.0	59.9	20.4	19.7
In SMSA's outside Production Areas.....	1,676	100.0	57.1	24.2	18.7
Outside of SMSA's.....	2,101	100.0	56.4	23.8	19.8
TON-MILES	(Millions of ton- miles)				
United States, total.....	4,602	100.0	56.6	25.6	17.8
In Production Areas.....	2,712	100.0	55.1	27.4	17.5
In SMSA's outside Production Areas.....	877	100.0	59.8	22.1	18.1
Outside of SMSA's.....	1,013	100.0	57.9	23.6	18.5

Shipper Group 11

Lumber and Wood Products, Except Furniture

Data for Shipper Group 11 are based on a probability sample of 25,588 shipments reported by 246 establishments. The shipper group has been divided into three subgroups which can be closely related to industries classified in the Standard Industrial Classification (SIC). (This is the system of industrial classification developed over a period of years by experts on classification in government and private industry under the guidance of the Bureau of the Budget.) The subgroup and related SIC industries are as follows:

Shipper Subgroup 112.—Lumber and dimension stock

SIC 2421.—Sawmills and planing mills, general

SIC 2426.—Hardwood dimension and flooring mills

SIC 2429.—Special product sawmills, n.e.c.

Shipper Subgroup 113.—Millwork, veneer, plywood and prefabricated structural wood products

SIC 2431.—Millwork plants

SIC 2432.—Veneer and plywood plants

SIC 2433.—Prefabricated wooden buildings and structural members

Shipper Subgroup 114.—Wooden containers and miscellaneous wood products

SIC 2441.—Nailed and lock corner wooden boxes and shook

SIC 2442.—Wirebound boxes and crates

SIC 2443.—Veneer and plywood containers, except boxes and crates

SIC 2445.—Cooperage

SIC 2491.—Wood preserving

SIC 2499.—Wood products, n.e.c.

Commodities primary to these industries are classified in the following Transportation Commodity Classifications (TCC):¹

TCC 242.—Lumber and dimension stock

TCC 243.—Millwork and prefabricated wood products, including plywood and veneer

TCC 244.—Wooden containers

TCC 249.—Miscellaneous wood products

Data for these commodities are included in the Commodity Series chapter: Commodity Group 24, Lumber and Wood Products, Except Furniture.

Because the data are based on a probability sample, they are subject to sampling variability. The term "sampling variability" refers to the differences that would be expected between results of a sample survey and results that would have been obtained from a complete enumeration of plants and shipping documents. Estimates of sampling variability for Shipper Group 11 on total tons and on key items, are shown below:

Item	Estimated tons based on sample (thousands)	Sampling variability (percent)
Total tons.....	70,380	10.5
SHIPPER SUBGROUPS		
112 Lumber and dimension stock....	49,912	13.3
113 Millwork, veneer, plywood and prefabricated structural wood products	10,668	19.0
114 Wooden containers and miscellaneous wood products.....	9,800	26.3
MEANS OF TRANSPORT		
Rail.....	37,813	19.3
Motor carrier.....	10,146	22.9
Private truck.....	20,887	15.6
Other.....	1,534	48.7
ORIGIN OF SHIPMENT (Geographic Division)		
New England.....	1,731	44.1
Middle Atlantic.....	616	56.1
East North Central.....	3,836	27.3
West North Central.....	1,079	51.3
South Atlantic.....	14,346	29.3
East South Central.....	9,096	56.2
West South Central.....	4,666	31.5
Mountain.....	5,133	43.1
Pacific.....	29,877	12.2

¹See *Commodity Classification for Transportation Statistics, 1963, Executive Office of the President, Bureau of the Budget.*

TABLE 1. Tons and Ton-Miles of Shipments—Means of Transport and Shipper Subgroup: 1963

Shipper subgroup	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
11 Lumber and wood products, except furniture.....	70,380	100.0	53.7	14.4	29.7	-	2.1	0.1	-
112 Lumber and dimension stock....	49,912	100.0	51.1	14.2	32.2	-	2.5	-	-
113 Millwork, veneer, plywood and prefabricated structural wood products.....	10,668	100.0	68.7	8.0	21.3	-	1.8	.1	0.1
114 Wooden containers and miscellaneous wood products.....	9,800	100.0	51.3	22.5	25.7	-	.3	.2	-
TON-MILES	(Millions of ton-miles)								
11 Lumber and wood products, except furniture.....	41,500	100.0	83.8	6.7	6.9	-	2.5	.1	-
112 Lumber and dimension stock....	26,488	100.0	81.3	6.8	8.3	-	3.5	-	.1
113 Millwork, veneer, plywood and prefabricated structural wood products.....	11,309	100.0	93.7	2.8	2.4	-	1.0	.1	-
114 Wooden containers and miscellaneous wood products.....	3,703	100.0	71.7	17.7	10.0	-	.4	.2	-

TABLE 2. Tons of Shipments—Means of Transport and Distance Shipped: 1963

Distance shipped ¹	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
All distances.....	70,380	100.0	53.7	14.4	29.7	-	2.1	0.1	-
Under 50 miles.....	10,477	100.0	18.2	17.3	60.3	-	4.1	.1	-
50 to 99 miles.....	13,419	100.0	42.1	12.9	44.3	-	.7	-	-
100 to 199 miles.....	9,599	100.0	44.3	13.4	42.0	-	.1	.1	0.1
200 to 299 miles.....	5,499	100.0	38.3	26.5	35.0	-	-	-	.2
300 to 399 miles.....	3,670	100.0	39.1	24.0	36.8	-	-	.1	-
400 to 499 miles.....	2,339	100.0	51.8	23.7	24.5	-	-	-	-
500 to 599 miles.....	4,067	100.0	52.8	35.3	11.8	-	.1	-	-
600 to 799 miles.....	4,095	100.0	60.9	17.2	4.8	-	17.1	-	-
800 to 999 miles.....	1,597	100.0	84.7	13.7	.7	-	-	.4	.5
1,000 to 1,499 miles.....	3,729	100.0	97.9	1.1	.7	-	.2	.1	-
1,500 to 1,999 miles.....	6,311	100.0	98.9	.2	.6	-	.2	.1	-
2,000 miles and over.....	5,578	100.0	96.1	.1	-	-	3.8	-	-

NOTE: Percent distributions by ton-miles are about the same as those for tons because data are grouped in mileage blocks.

¹Distances of shipments to foreign destinations are calculated only to the American port of exit.

TABLE 3. **Tons and Ton-Miles of Shipments—Means of Transport and Weight: 1963**

Weight	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS		(Thousands of tons)							
Total.....	152,105	100.0	61.0	12.1	25.1	-	1.6	0.1	0.1
Shipments—									
Under 1,000 pounds.....	386	100.0	0.5	41.2	54.8	0.1	-	3.3	.1
Under 50 pounds.....	16	100.0	.6	17.0	48.2	.9	-	33.2	.1
50 to 199 pounds.....	81	100.0	1.3	35.1	57.9	.4	-	5.2	.1
200 to 999 pounds.....	289	100.0	.3	44.3	54.2	-	-	1.1	.1
1,000 to 9,999 pounds.....	1,316	100.0	2.4	33.7	63.2	-	.1	.5	.1
1,000 to 1,999 pounds.....	289	100.0	1.6	45.5	52.5	-	-	.3	.1
2,000 to 9,999 pounds.....	1,027	100.0	2.6	30.4	66.2	-	.1	.6	.1
10,000 to 29,999 pounds.....	4,486	100.0	5.9	17.8	75.8	-	.1	.3	.1
10,000 to 19,999 pounds.....	1,584	100.0	5.2	21.5	73.2	-	.1	-	-
20,000 to 29,999 pounds.....	2,902	100.0	6.3	15.8	77.2	-	.1	.5	.1
30,000 to 59,999 pounds.....	15,362	100.0	21.4	28.4	49.0	-	1.1	-	.1
30,000 to 39,999 pounds.....	6,306	100.0	12.8	26.1	60.5	-	.6	-	-
40,000 to 59,999 pounds.....	9,056	100.0	27.3	30.1	41.0	-	1.4	-	.2
60,000 to 89,999 pounds.....	16,868	100.0	94.1	2.5	3.1	-	.3	-	-
60,000 to 69,999 pounds.....	3,752	100.0	84.2	6.8	8.2	-	.6	.1	.1
70,000 to 79,999 pounds.....	6,193	100.0	95.1	2.5	2.0	-	.4	-	-
80,000 to 89,999 pounds.....	6,923	100.0	98.4	.3	1.3	-	-	-	-
90,000 pounds and over.....	13,687	100.0	90.5	.7	4.2	-	4.5	.1	-
TON-MILES		(Millions of ton-miles)							
Total.....	134,251	100.0	86.2	6.1	5.6	-	1.9	.1	.1
Shipments—									
Under 1,000 pounds.....	111	100.0	1.3	73.7	15.8	.4	-	8.6	.2
Under 50 pounds.....	6	100.0	.3	22.7	9.7	3.4	-	63.6	.3
50 to 199 pounds.....	23	100.0	2.5	69.7	16.6	.9	-	9.9	.4
200 to 999 pounds.....	82	100.0	1.0	78.2	16.0	-	-	4.6	.2
1,000 to 9,999 pounds.....	241	100.0	7.4	59.2	30.9	-	.4	2.0	.1
1,000 to 1,999 pounds.....	61	100.0	3.0	74.4	19.8	-	-	2.7	.1
2,000 to 9,999 pounds.....	180	100.0	8.8	54.2	34.7	-	.5	1.7	.1
10,000 to 29,999 pounds.....	774	100.0	34.1	20.5	44.7	-	.1	.6	-
10,000 to 19,999 pounds.....	250	100.0	35.6	24.6	39.6	-	.2	-	-
20,000 to 29,999 pounds.....	524	100.0	33.4	18.6	47.1	-	-	.9	-
30,000 to 59,999 pounds.....	6,679	100.0	54.9	23.1	20.4	-	1.5	-	.1
30,000 to 39,999 pounds.....	1,880	100.0	46.0	22.3	30.9	-	.8	-	-
40,000 to 59,999 pounds.....	4,799	100.0	58.5	23.4	16.2	-	1.7	-	.2
60,000 to 89,999 pounds.....	19,496	100.0	98.8	.7	.4	-	.1	-	-
60,000 to 69,999 pounds.....	4,200	100.0	96.0	2.2	1.0	-	.5	.2	.1
70,000 to 79,999 pounds.....	7,632	100.0	99.1	.6	.1	-	.1	-	.1
80,000 to 89,999 pounds.....	7,664	100.0	99.6	.1	.3	-	-	-	-
90,000 pounds and over.....	6,950	100.0	91.5	.3	.5	-	7.7	-	-

NOTE: Because of rounding, detail may not add to total.

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 4. Tons of Shipments—Means of Transport,
Distance Shipped, and Weight: 1963

Distance and weight	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS									
Total.....	¹ 52,105	100.0	61.0	12.1	25.1	-	1.6	0.1	0.1
Under 200 miles.....	23,190	100.0	45.4	10.7	41.9	-	1.9	.1	-
Under 1,000 pounds.....	258	100.0	.2	19.8	78.6	-	-	1.4	-
1,000 to 9,999 pounds.....	995	100.0	1.3	19.9	78.4	-	-	.4	-
10,000 to 29,999 pounds.....	3,483	100.0	1.0	14.6	83.9	-	.1	.3	.1
30,000 to 59,999 pounds.....	6,626	100.0	3.8	23.1	72.8	-	.3	-	-
60,000 pounds and over.....	11,828	100.0	86.2	1.7	8.4	-	3.6	.1	-
200 to 599 miles.....	11,368	100.0	45.5	26.8	27.6	-	-	-	.1
Under 1,000 pounds.....	65	100.0	.8	84.7	9.7	-	.1	4.7	-
1,000 to 29,999 pounds.....	965	100.0	6.7	42.4	50.8	-	-	-	.1
30,000 pounds and over.....	10,338	100.0	49.5	24.9	25.5	-	-	-	.1
600 miles and over.....	17,547	100.0	92.1	4.3	1.2	-	2.2	.1	.1
Under 1,000 pounds.....	63	100.0	1.6	84.4	3.2	0.6	-	9.7	.5
1,000 to 59,999 pounds.....	3,308	100.0	70.8	18.5	6.0	-	4.3	.2	.2
60,000 pounds and over.....	14,176	100.0	97.6	.6	.1	-	1.7	-	-

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 5. Tons and Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons and ton-miles	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
	TONS OF SHIPMENTS	(Thousands of tons)								
	Total products shipped.....	70,380	100.0	53.7	14.4	29.7	-	2.1	0.1	-
	Total primary commodities ¹ ..	57,313	100.0	50.3	15.8	31.3	-	2.5	.1	-
	Total other commodities ²	13,067	100.0	69.0	8.4	22.5	-	-	.1	-
	Selected Primary Commodities ³									
242	Lumber and dimension stock and miscellaneous sawmill and planing mill products.....	40,766	100.0	46.7	15.3	34.5	-	3.4	-	0.1
2421	Lumber and dimension stock....	39,622	100.0	46.4	15.3	34.9	-	3.4	-	-
243	Millwork and prefabricated wood products, including plywood and veneer.....	9,415	100.0	71.8	8.6	19.2	-	.2	.1	.1
2431	Millwork (exc. metal covered)..	1,371	100.0	51.9	10.7	36.5	0.1	3.	.5	-
2432	Plywood, veneer and built-up wood (exc. wood particle board)	7,287	100.0	82.2	8.6	8.9	-	.2	-	.1
244	Wooden containers.....	2,342	100.0	19.1	44.0	36.9	-	-	-	-
249	Miscellaneous wood products.....	4,790	100.0	53.2	20.3	25.3	-	.9	.3	-
2491	Creosoted and oil treated wood products.....	2,672	100.0	66.4	13.1	19.7	-	.8	-	-
2499	Wood products, n.e.c.....	1,754	100.0	39.4	22.9	35.6	-	1.3	.8	-
	TON-MILES	(Millions of ton-miles)								
	Total.....	41,500	100.0	83.8	6.7	6.9	-	2.5	.1	-
	Total primary commodities ¹ ..	40,328	100.0	84.1	6.6	6.7	-	2.6	-	-
	Total other commodities ²	1,172	100.0	74.4	10.5	14.4	-	-	.7	-
	Selected Primary Commodities ³									
242	Lumber and dimension stock and miscellaneous sawmill and planing mill products.....	26,225	100.0	81.1	6.7	8.2	-	3.9	-	.1
2421	Lumber and dimension stock....	25,782	100.0	81.6	6.3	8.2	-	3.9	-	-
243	Millwork and prefabricated wood products, including plywood and veneer.....	10,948	100.0	95.3	2.6	2.1	-	-	-	-
2431	Millwork (exc. metal covered)..	1,041	100.0	90.8	4.5	4.1	-	.2	.4	-
2432	Plywood, veneer and built-up wood (exc. wood particle board)	9,749	100.0	96.7	2.4	.8	-	-	-	.1
244	Wooden containers.....	786	100.0	36.8	47.8	15.4	-	-	-	-
249	Miscellaneous wood products.....	2,369	100.0	80.4	10.0	8.3	-	1.1	.2	-
2491	Creosoted and oil treated wood products.....	933	100.0	89.3	4.3	6.4	-	-	-	-
2499	Wood products, n.e.c.....	1,241	100.0	77.9	10.1	9.6	-	2.0	.4	-

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 242, 243, 244, and 249.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 6. Tons of Shipments—Distance Shipped and
Commodity: 1963

TCC code	Commodity	Tons (thousands)	Percent distribution by distance of shipment								
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
	Total products shipped.	70,380	100.0	34.0	13.6	7.8	5.2	3.3	13.9	5.3	16.9
	Total primary com- modities ¹	57,313	100.0	24.1	12.7	9.0	6.3	4.0	16.7	6.5	20.7
	Total other com- modities ²	13,067	100.0	77.5	17.7	2.6	.4	.1	1.3	.1	.3
	Selected Primary Commodities ³										
242	Lumber and dimension stock and miscellaneous sawmill and planing mill products.	40,766	100.0	26.2	12.1	9.0	6.2	3.7	18.1	7.0	17.7
2421	Lumber and dimension stock.....	39,622	100.0	26.4	12.2	8.9	5.6	3.6	17.9	7.2	18.2
243	Millwork and prefabricated wood products, including plywood and veneer.....	9,415	100.0	13.5	13.5	5.0	4.9	1.9	11.5	5.1	44.6
2431	Millwork (exc. metal covered).....	1,371	100.0	29.3	12.1	5.3	3.2	1.6	16.5	9.3	22.7
2432	Plywood, veneer and built-up wood (exc. wood particle board).....	7,287	100.0	8.1	12.3	4.0	4.5	1.9	11.1	4.8	53.3
244	Wooden containers.....	2,342	100.0	26.2	18.1	11.2	11.1	11.5	17.9	3.6	.4
249	Miscellaneous wood products	4,790	100.0	24.7	14.0	16.1	8.1	7.2	14.6	5.9	9.4
2491	Creosoted and oil treated wood products.....	2,672	100.0	22.4	17.8	22.4	8.7	6.5	15.5	6.4	.3
2499	Wood products, n.e.c.....	1,754	100.0	25.8	9.4	8.2	7.1	8.2	13.3	5.0	23.0

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 242, 243, 244, and 249.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 7. Tons of Shipments—Means of Transport, Geographic Division of Origin, and Distance Shipped: 1963

Geographic division and distance	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
United States, total.....	70,380	100.0	53.7	14.4	29.7	-	2.1	0.1	-
Under 200 miles.....	33,495	100.0	35.3	14.4	48.6	-	1.6	.1	-
200 to 399 miles.....	9,169	100.0	38.7	25.5	35.7	-	-	-	0.1
400 to 599 miles.....	6,406	100.0	52.5	31.1	16.4	-	-	-	-
600 to 999 miles.....	5,692	100.0	67.6	16.3	3.6	-	12.3	.1	.1
1,000 miles and over.....	15,618	100.0	97.6	.4	.4	-	1.5	.1	-
New England and Middle Atlantic.....	2,347	100.0	10.0	49.2	40.3	-	.4	.1	-
Under 200 miles.....	1,163	100.0	.7	35.0	64.2	-	-	.1	-
200 miles and over.....	1,184	100.0	19.1	63.1	16.8	-	.9	.1	-
East North Central and West									
North Central.....	4,915	100.0	34.8	14.9	49.8	-	-	.5	-
Under 200 miles.....	3,170	100.0	16.7	15.6	67.2	-	-	.5	-
200 to 599 miles.....	1,204	100.0	62.6	12.4	24.8	-	-	.2	-
600 miles and over.....	541	100.0	79.1	16.4	3.5	-	-	1.0	-
South Atlantic, East South Central and West South Central.....	28,108	100.0	43.3	17.9	38.7	-	.1	-	-
Under 200 miles.....	18,861	100.0	44.5	11.3	44.1	-	.1	-	-
200 to 399 miles.....	4,333	100.0	35.4	17.8	46.7	-	-	-	.1
400 miles and over.....	4,914	100.0	46.1	43.0	10.5	-	.2	.2	-
Mountain and Pacific ¹	35,010	100.0	67.7	9.2	18.9	-	4.1	-	.1
Under 200 miles.....	10,301	100.0	28.1	17.4	49.4	-	5.0	.1	-
200 to 999 miles.....	9,806	100.0	63.0	14.6	15.2	-	7.1	-	.1
1,000 miles and over.....	14,903	100.0	98.2	.1	.3	-	1.4	-	-

¹No data were obtained on shipments originating in Alaska and Hawaii.

CENSUS GEOGRAPHIC DIVISIONS

New England—Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut
Middle Atlantic—New York, New Jersey, Pennsylvania
East North Central—Ohio, Indiana, Illinois, Michigan, Wisconsin
West North Central—Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, Kansas
South Atlantic—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida
East South Central—Kentucky, Tennessee, Alabama, Mississippi
West South Central—Arkansas, Louisiana, Oklahoma, Texas
Mountain—Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada
Pacific—Washington, Oregon, California, Alaska, Hawaii

TABLE 8. Tons and Ton-Miles of Shipments—Means of Transport and Geographic Division of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
United States, total.....	70,380	100.0	53.7	14.4	29.7	-	2.1	0.1	-
Shipments originating from—									
New England.....	1,731	100.0	12.9	47.5	38.9	-	.6	.1	-
Middle Atlantic.....	616	100.0	1.6	54.1	44.1	-	.1	.1	-
East North Central.....	3,836	100.0	27.0	16.1	56.4	-	-	.5	-
West North Central.....	1,079	100.0	62.6	10.7	26.2	-	-	.5	-
South Atlantic.....	14,346	100.0	42.9	7.9	49.1	-	.1	-	-
East South Central.....	9,096	100.0	48.8	31.5	19.5	-	.1	.1	-
West South Central.....	4,666	100.0	34.0	21.9	44.1	-	-	-	-
Mountain.....	5,133	100.0	51.5	6.8	41.7	-	-	-	-
Pacific ¹	29,877	100.0	70.4	9.7	15.0	-	4.8	-	0.1
TON-MILES	(Millions of ton-miles)								
United States, total.....	41,500	100.0	83.8	6.7	6.9	-	2.5	.1	-
Shipments originating from—									
New England.....	603	100.0	28.8	54.4	14.2	-	2.5	.1	-
Middle Atlantic.....	110	100.0	4.0	64.2	31.2	-	.6	-	-
East North Central.....	812	100.0	59.0	14.3	26.4	-	-	.3	-
West North Central.....	325	100.0	72.2	17.4	8.9	-	-	1.5	-
South Atlantic.....	1,985	100.0	43.9	16.1	39.9	-	-	.1	-
East South Central.....	2,709	100.0	48.0	42.0	9.1	-	.6	.3	-
West South Central.....	1,203	100.0	60.5	8.2	31.3	-	-	-	-
Mountain.....	3,098	100.0	90.7	1.5	7.8	-	-	-	-
Pacific ¹	30,655	100.0	91.9	2.0	2.7	-	3.3	-	.1

¹No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 9. Tons and Ton-Miles of Shipments—Geographic Division of Destination and of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by geographic division of destination									
		All divisions	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific ¹
TONS OF SHIPMENTS	(Thousands of tons)										
United States, total.....	70,380	100.0	2.7	6.4	13.8	6.5	23.8	9.2	8.6	5.7	23.3
Shipments originating from—											
New England.....	1,731	100.0	46.3	25.6	13.9	1.0	10.7	1.2	.6	—	.7
Middle Atlantic.....	616	100.0	27.1	63.0	3.7	.1	5.0	.1	—	.1	.9
East North Central.....	3,836	100.0	.5	3.7	83.1	4.6	2.2	1.7	1.1	.8	2.3
West North Central.....	1,079	100.0	1.0	4.3	16.3	70.7	2.4	.5	.9	3.1	.8
South Atlantic.....	14,346	100.0	1.0	10.0	2.0	.3	84.5	1.8	.4	—	—
East South Central.....	9,096	100.0	.3	2.9	11.8	2.4	25.8	49.5	5.1	.4	1.8
West South Central.....	4,666	100.0	.6	.4	8.4	2.7	2.5	14.1	68.9	.6	1.8
Mountain.....	5,133	100.0	1.5	3.6	11.0	10.9	2.4	3.1	3.0	48.4	16.1
Pacific ²	29,877	100.0	2.2	5.4	12.7	9.0	5.4	2.7	7.1	4.8	50.7
TON-MILES	(Millions of ton-miles)										
United States, total.....	41,500	100.0	5.2	12.4	22.8	11.4	15.8	6.2	10.0	3.5	12.7
Shipments originating from—											
New England.....	603	100.0	14.2	22.6	31.3	3.5	16.6	2.9	3.1	.4	5.4
Middle Atlantic.....	110	100.0	19.0	45.5	9.5	.4	10.9	.4	.2	1.2	12.9
East North Central.....	812	100.0	2.0	12.1	37.8	7.8	8.5	3.7	5.2	4.7	18.2
West North Central.....	325	100.0	3.3	13.0	16.0	45.0	6.6	.9	1.8	9.6	3.8
South Atlantic.....	1,985	100.0	6.4	20.4	6.6	1.6	56.8	4.5	2.1	.3	1.3
East South Central.....	2,709	100.0	.9	7.6	20.2	4.2	36.2	15.3	3.0	1.6	11.0
West South Central.....	1,203	100.0	2.9	1.9	22.4	5.3	6.0	14.5	33.7	2.2	11.1
Mountain.....	3,098	100.0	5.6	12.1	27.3	16.2	8.3	8.6	5.4	8.7	7.8
Pacific ²	30,655	100.0	5.4	12.5	23.1	12.3	12.6	5.2	11.1	3.4	14.4

¹Shipments to Alaska and Hawaii from the 48 conterminous States and the District of Columbia are included.²No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 10. Tons and Ton-Miles of Shipments—Means of Transport and Employment Size of Establishment: 1963

Employment size of establishment	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
Total.....	70,380	100.0	53.7	14.4	29.7	-	2.1	0.1	-
Number of employees--									
Under 20 employees.....	15,732	100.0	44.0	24.0	32.0	-	-	-	-
20 to 99 employees.....	21,684	100.0	43.6	12.7	43.6	-	-	.1	-
100 to 499 employees.....	27,319	100.0	63.1	8.9	22.5	-	5.3	.1	0.1
500 employees and over.....	5,645	100.0	74.2	21.1	4.4	-	.1	.1	.1
TON-MILES	(Millions of ton-miles)								
Total.....	41,500	100.0	83.8	6.7	6.9	-	2.5	.1	-
Number of employees--									
Under 20 employees.....	2,348	100.0	27.7	56.3	15.8	-	-	.2	-
20 to 99 employees.....	11,694	100.0	81.0	6.5	12.3	-	-	.1	.1
100 to 499 employees.....	21,376	100.0	88.2	2.3	4.6	-	4.9	-	-
500 employees and over.....	6,082	100.0	95.6	3.2	1.0	-	-	.1	.1

TABLE 11. Tons of Shipments—Distance Shipped and Employment Size of Establishment: 1963

Employment size of establishment	Tons (thousands)	Percent distribution by distance of shipment								
		All distances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
Total tons.....	70,380	100.0	34.0	13.6	7.8	5.2	3.3	13.9	5.3	16.9
Number of employees—										
Under 20 employees.....	15,732	100.0	72.3	5.9	3.0	5.5	1.6	11.4	.2	.1
20 to 99 employees.....	21,684	100.0	28.2	15.3	15.3	6.9	3.3	12.0	3.7	15.3
100 to 499 employees.....	27,319	100.0	19.6	18.9	4.9	4.0	4.3	16.2	8.6	23.5
500 employees and over.....	5,645	100.0	18.7	3.4	6.7	3.7	3.4	16.6	9.6	37.9

TABLE 12. Tons of Shipments—Distance Shipped and Production Area of Origin: 1963

Production Area of origin	Tons (thousands)	Percent distribution by distance of shipment							
		All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
TONS OF SHIPMENTS									
Total.....	70,380	100.0	34.0	13.6	7.8	8.5	13.9	5.3	16.9
All Production Areas ¹	2,275	100.0	39.3	6.2	4.4	7.1	7.0	12.2	23.8
SMSA's outside Production Areas.....	8,324	100.0	19.9	10.4	8.8	11.6	18.5	10.5	20.3
Balance of United States.....	59,781	100.0	35.7	14.4	7.8	8.2	13.5	4.3	16.1

¹For description of Production Areas, see map in appendix C.

TABLE 13. Tons and Ton-Miles of Shipments—Area of Destination and of Origin: 1963

Area of origin	Tons and ton-miles	Percent distribution by area of destination			
		All areas of destination	Production Areas	SMSA's outside Production Areas	Areas outside SMSA's
TONS OF SHIPMENTS	(Thousands of tons)				
United States, total.....	70,380	100.0	27.0	25.3	47.7
In Production Areas.....	2,275	100.0	42.4	13.6	44.0
In SMSA's outside Production Areas.....	8,324	100.0	24.6	32.3	43.1
Outside of SMSA's.....	59,781	100.0	26.7	24.7	48.6
TON-MILES	(Millions of ton- miles)				
United States, total.....	41,500	100.0	39.7	25.9	34.4
In Production Areas.....	1,682	100.0	27.8	20.1	52.1
In SMSA's outside Production Areas.....	6,316	100.0	35.3	27.4	37.3
Outside of SMSA's.....	33,502	100.0	41.1	25.9	33.0

Shipper Group 12

Furniture, Fixtures, and Miscellaneous Manufactured Products

Data for Shipper Group 12 are based on a probability sample of 35,418 shipments reported by 298 establishments. The shipper group has been divided into four subgroups which can be closely related to industries classified in the Standard Industrial Classification (SIC). (This is the system of industrial classification developed over a period of years by experts on classification in government and private industry under the guidance of the Bureau of the Budget.) The subgroup and related SIC industries are as follows:

Shipper Subgroup 121.—Household and office furniture

- SIC 2511.—Wood household furniture, except upholstered
- SIC 2512.—Wood household furniture, upholstered
- SIC 2514.—Metal household furniture
- SIC 2515.—Mattresses and bed springs
- SIC 2519.—Household furniture, n.e.c.
- SIC 2521.—Wood office furniture
- SIC 2522.—Metal office furniture

Shipper Subgroup 122.—Other furniture, fixtures and partitions

- SIC 2531.—Public building and related furniture
- SIC 2541.—Wood partitions, shelving, lockers, and office and store fixtures
- SIC 2542.—Metal partitions, shelving, lockers, and office and store fixtures
- SIC 2591.—Venetian blinds and shades
- SIC 2599.—Furniture and fixtures, n.e.c.

Shipper Subgroup 123.—Jewelry, silver and plated ware; toys, amusement, sporting and athletic goods; costume jewelry, novelties and notions

- SIC 3911.—Jewelry, precious metal
- SIC 3912.—Jewelers' findings and materials
- SIC 3913.—Lapidary work and cutting and polishing diamonds
- SIC 3914.—Silverware and plated ware
- SIC 3941.—Games and toys, except dolls and children's vehicles
- SIC 3942.—Dolls
- SIC 3943.—Children's vehicles, except bicycles
- SIC 3949.—Sporting and athletic goods, n.e.c.
- SIC 3961.—Costume jewelry and costume novelties, except precious metal
- SIC 3962.—Feathers, plumes, and artificial flowers
- SIC 3963.—Buttons
- SIC 3964.—Needles, pins, hooks and eyes, and similar notions

Shipper Subgroup 124.—Musical instruments; pens, pencils and office and artists' supplies and materials; and other miscellaneous manufactured products

- SIC 3931.—Musical instruments and parts
- SIC 3951.—Pens, pen points, fountain pens, ball point pens, mechanical pencils and parts
- SIC 3952.—Lead pencils, crayons, and artists' materials
- SIC 3953.—Marking devices
- SIC 3955.—Carbon paper and inked ribbons
- SIC 3981.—Brooms and brushes
- SIC 3982.—Linoleum, asphalted-felt-base, and other hard surface floor coverings, n.e.c.
- SIC 3983.—Matches
- SIC 3984.—Candles
- SIC 3987.—Lamp shades
- SIC 3988.—Morticians' goods
- SIC 3992.—Furs, dressed and dyed
- SIC 3993.—Signs and advertising displays
- SIC 3995.—Umbrellas, parasols, and canes
- SIC 3999.—Manufacturing industries, n.e.c.

Commodities primary to these industries are classified in the following Transportation Commodity Classifications (TCC):¹

- TCC 251.—Household and office furniture
- TCC 253.—Public building and related furniture
- TCC 254.—Partitions, shelving, lockers, and office and store fixtures
- TCC 259.—Miscellaneous furniture and fixtures
- TCC 391.—Jewelry, silverware, and plated ware
- TCC 393.—Musical instruments and parts
- TCC 394.—Toys, amusement, sporting, and athletic goods
- TCC 395.—Pens, pencils, and other office and artists' materials
- TCC 396.—Costume jewelry, buttons, costume novelties or notions
- TCC 398. } Miscellaneous manufactured products
- TCC 399. }

Data for these commodities are included in the Commodity Series chapters: Commodity Group 25, Furniture and Fixtures, and Commodity Group 39, Miscellaneous Products of Manufacturing.

¹ See *Commodity Classification for Transportation Statistics, 1963, Executive Office of the President, Bureau of the Budget.*

Because the data are based on a probability sample, they are subject to sampling variability. The term "sampling variability" refers to the differences that would be expected between results of a sample survey and results that would have been obtained from a

complete enumeration of plants and shipping documents. Estimates of sampling variability for Shipper Group 12 on total tons and on key items, are shown below:

Item	Estimated tons based on sample (thousands)	Sampling vari- ability (percent)
Total tons.....	9,494	11.9
SHIPPER SUBGROUPS		
121 Household and office furniture	6,000	20.4
122 Other furniture, fixtures and partitions.....	1,274	12.0
123 Jewelry, silver and plated ware; toys, amusement, sporting and athletic goods; costume jewelry, novelties and notions.....	36	38.8
124 Musical instruments; pens, pencils and office and artists' supplies and materials; and other miscel- laneous manufactured products	2,184	8.7
MEANS OF TRANSPORT		
Rail.....	2,126	14.2
Motor carrier.....	3,772	11.7
Private truck.....	3,375	25.2
Other.....	221	14.9
ORIGIN OF SHIPMENT (Geographic Division)		
New England.....	527	28.4
Middle Atlantic.....	2,721	21.9
East North Central.....	2,427	11.3
West North Central.....	226	40.7
South Atlantic.....	2,222	30.5
East South Central.....	635	35.9
West South Central.....	465	38.2
Mountain and Pacific.....	271	22.9

TABLE 1. **Tons and Ton-Miles of Shipments—Means of Transport and Shipper Subgroup: 1963**

Shipper subgroup	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
12 Furniture, fixtures, and miscellaneous manufactured products.....	9,494	100.0	22.4	39.8	35.5	0.1	0.4	1.5	0.3
121 Household and office furniture.	6,000	100.0	24.1	33.1	41.8	-	-	.8	.2
122 Other furniture, fixtures and partitions.....	1,274	100.0	16.2	57.0	24.6	.2	-	2.0	-
123 Jewelry, silver and plated ware; toys, amusement, sporting and athletic goods; costume jewelry, novelties and notions.....	36	100.0	6.0	60.3	1.6	5.8	-	26.2	.1
124 Musical instruments; pens, pencils and office and artists' supplies and materials; and other miscellaneous manufactured products.....	2,184	100.0	21.6	47.8	25.1	.1	1.7	2.8	.9
TON-MILES	(Millions of ton-miles)								
12 Furniture, fixtures, and miscellaneous manufactured products.....	4,467	100.0	41.4	35.9	18.1	.2	1.8	2.4	.2
121 Household and office furniture.	2,435	100.0	46.4	30.3	21.9	-	.1	1.2	.1
122 Other furniture, fixtures and partitions.....	766	100.0	27.1	51.2	18.3	.2	.1	3.1	-
123 Jewelry, silver and plated ware; toys, amusement, sporting and athletic goods; costume jewelry, novelties and notions.....	25	100.0	11.0	52.5	.1	9.1	-	27.0	.3
124 Musical instruments; pens, pencils and office and artists' supplies and materials; and other miscellaneous manufactured products.....	1,241	100.0	41.3	37.2	10.9	.2	6.2	3.8	.4

TABLE 2. Tons of Shipments—Means of Transport and Distance Shipped: 1963

Distance shipped ¹	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
All distances.....	9,494	100.0	22.4	39.8	35.5	0.1	0.4	1.5	0.3
Under 50 miles.....	1,110	100.0	5.1	32.4	60.6	-	.2	1.2	.5
50 to 99 miles.....	1,003	100.0	1.9	34.5	62.7	-	.1	.7	.1
100 to 199 miles.....	1,472	100.0	9.2	40.1	48.5	-	-	.9	1.3
200 to 299 miles.....	1,161	100.0	15.9	45.8	37.0	-	.1	.9	.3
300 to 399 miles.....	888	100.0	17.9	50.8	30.4	-	-	.9	-
400 to 499 miles.....	705	100.0	13.3	45.5	39.8	.1	-	1.2	.1
500 to 599 miles.....	665	100.0	37.3	47.8	13.9	-	-	1.0	-
600 to 799 miles.....	900	100.0	42.2	40.9	14.1	.2	-	2.5	.1
800 to 999 miles.....	545	100.0	43.1	37.3	16.7	.1	.1	2.7	-
1,000 to 1,199 miles.....	296	100.0	51.9	34.1	10.4	.3	.1	3.1	.1
1,200 to 1,499 miles.....	151	100.0	49.2	36.0	9.9	.5	.6	3.3	.5
1,500 to 1,999 miles.....	283	100.0	56.0	29.0	7.1	.6	1.5	5.7	.1
2,000 miles or more.....	315	100.0	72.7	14.7	.5	.1	9.5	2.4	.1

NOTE: Percent distributions by ton-miles are about the same as those for tons because data are grouped in mileage blocks.

¹Distances of shipments to foreign destinations are calculated only to the American port of exit.

TABLE 3. **Tons and Ton-Miles of Shipments—Means of Transport and Weight: 1963**

Weight	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
Total.....	¹ 6,933	100.0	25.7	46.3	25.4	0.1	0.6	1.5	0.4
Shipments—									
Under 1,000 pounds.....	2,003	100.0	8.2	65.8	21.8	.2	.1	3.5	.4
Under 50 pounds.....	61	100.0	3.8	39.8	8.3	1.4	.1	46.2	.4
50 to 99 pounds.....	134	100.0	6.2	75.3	12.2	.2	.5	5.0	.6
100 to 199 pounds.....	401	100.0	7.5	71.7	17.9	.2	.1	2.3	.3
200 to 499 pounds.....	770	100.0	10.0	66.6	21.4	.1	.1	1.7	.1
500 to 999 pounds.....	637	100.0	7.2	61.7	28.1	.1	.1	1.9	.9
1,000 to 9,999 pounds.....	2,118	100.0	9.6	45.9	42.2	—	.1	1.3	.9
1,000 to 1,999 pounds.....	673	100.0	7.3	52.2	38.1	—	.1	1.4	.9
2,000 to 9,999 pounds.....	1,445	100.0	10.7	42.7	44.3	—	.2	1.2	.9
10,000 pounds and over.....	2,812	100.0	50.2	33.1	15.2	—	1.2	.3	—
TON-MILES	(Millions of ton- miles)								
Total.....	¹ 3,697	100.0	44.4	37.0	14.1	.1	2.1	2.1	.2
Shipments—									
Under 1,000 pounds.....	893	100.0	13.5	70.5	9.7	.4	.1	5.6	.2
Under 50 pounds.....	31	100.0	5.2	36.1	2.4	2.8	.1	52.4	1.0
50 to 99 pounds.....	68	100.0	8.8	81.3	3.7	.5	.3	5.2	.2
100 to 199 pounds.....	184	100.0	12.5	75.4	7.1	.3	.1	4.1	.5
200 to 499 pounds.....	336	100.0	16.1	70.2	9.5	.3	—	3.9	—
500 to 999 pounds.....	274	100.0	13.2	68.8	14.0	.2	.2	3.4	.2
1,000 to 9,999 pounds.....	823	100.0	17.9	48.6	30.3	.1	—	2.6	.5
1,000 to 1,999 pounds.....	258	100.0	18.1	58.1	21.3	—	.1	1.6	.8
2,000 to 9,999 pounds.....	565	100.0	17.8	44.2	34.4	.1	—	3.1	.4
10,000 pounds and over.....	1,981	100.0	69.4	17.1	9.4	—	3.8	.3	—

NOTE: Because of rounding, detail may not add to total.

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 4. **Tons of Shipments—Means of Transport,
Distance Shipped, and Weight: 1963**

Distance and weight	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS									
Total.....	16,933	100.0	25.7	46.3	25.4	0.1	0.6	1.5	0.4
Under 200 miles.....	2,135	100.0	6.4	50.8	40.1	-	.2	1.4	1.1
Under 1,000 pounds.....	738	100.0	3.3	54.0	39.4	.1	.1	2.2	.9
1,000 pounds and over.....	1,397	100.0	8.0	49.1	40.4	-	.2	1.0	1.3
200 to 399 miles.....	1,569	100.0	15.8	55.4	28.0	-	-	.8	-
Under 1,000 pounds.....	475	100.0	6.2	73.1	18.3	-	.1	2.2	.1
1,000 pounds and over.....	1,094	100.0	19.9	47.7	32.2	-	-	.2	-
400 miles and over.....	3,229	100.0	43.2	39.2	14.4	.1	1.1	1.9	.1
Under 1,000 pounds.....	790	100.0	13.9	72.5	7.5	.4	.1	5.4	.2
1,000 pounds and over.....	2,439	100.0	52.8	28.4	16.6	-	1.4	.8	-

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 5. Tons and Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons and ton-miles	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
	TONS OF SHIPMENTS	(Thousands of tons)								
	Total products shipped.....	9,494	100.0	22.4	39.8	35.5	0.1	0.4	1.5	0.3
	Total primary commodities ¹	8,714	100.0	23.5	39.5	35.2	-	.1	1.4	.3
	Total other commodities ²	780	100.0	9.8	43.0	39.5	.5	3.9	2.7	.6
	Selected Primary Commodities ³									
251	Household and office furniture...	5,550	100.0	22.8	32.3	43.8	-	-	1.0	.1
2511	Chairs, rockers, benches and stools.....	495	100.0	10.8	70.2	15.9	.1	-	1.9	1.1
2512	Tables or desks.....	860	100.0	11.5	33.5	54.5	-	-	.4	.1
2515	Mattresses and bedsprings.....	1,065	100.0	6.2	8.3	85.0	-	-	.5	-
2516	Dressers, vanities, chests of drawers and beds (exc. hospital beds).....	403	100.0	12.1	24.8	60.6	-	.2	2.3	-
2517	Cabinets and cases.....	1,091	100.0	29.8	37.1	32.7	-	-	.4	-
2519	Household and office furniture, n.e.c.....	1,351	100.0	45.3	34.3	19.1	-	-	1.3	-
253	Public building and related furniture.....	265	100.0	40.3	32.8	26.7	-	-	.2	-
254	Partitions, shelving, lockers, and office and store fixtures...	687	100.0	5.2	70.4	23.5	-	-	.9	-
2542	Metal partitions, shelving, lockers and office and store fixtures.....	471	100.0	7.4	86.0	6.0	-	-	.5	.1
259	Miscellaneous furniture and fixtures.....	393	100.0	45.2	43.2	10.7	-	.3	.6	-
391	Jewelry, silverware and plated ware.....	16	100.0	11.7	45.3	1.1	2.9	-	38.8	.2
3911	Jewelry, precious metal; jewelers' findings, materials, and scrap; lapidary work; and cut or polished diamonds.....	2	100.0	1.1	3.5	1.4	8.4	-	84.1	1.5
395	Pens, pencils and other office and artists' materials.....	99	100.0	.2	86.7	1.7	.5	.7	10.0	.2
398	Miscellaneous manufactured products.....	1,396	100.0	31.7	41.8	24.2	-	.5	1.7	.1
3988	Morticians' goods.....	438	100.0	14.1	23.8	59.3	-	.1	2.5	.2
399	Miscellaneous manufactured products.....	195	100.0	2.9	80.5	2.0	.1	-	5.3	9.2
3993	Signs and advertising displays.....	85	100.0	3.1	87.9	4.3	.1	-	4.4	.2
3999	Manufactured products, n.e.c....	107	100.0	2.9	74.0	.3	.1	-	6.1	16.6
	TON-MILES	(Millions of ton-miles)								
	Total products shipped.....	4,467	100.0	41.4	35.9	18.1	.2	1.8	2.4	.2
	Total primary commodities ¹	4,139	100.0	43.4	35.4	18.7	.1	.2	2.1	.1
	Total other commodities ²	328	100.0	9.8	43.0	39.5	.5	3.9	2.7	.6
	Selected Primary Commodities ³									
251	Household and office furniture...	2,329	100.0	44.6	31.2	22.5	-	.1	1.5	.1
2511	Chairs, rockers, benches and stools.....	177	100.0	20.2	66.3	9.1	.5	.3	3.4	.2

See footnotes at end of table.

TABLE 5. Tons and Ton-Miles of Shipments—Means of Transport and Commodity: 1963—Continued

TCC code	Commodity	Tons and ton-miles	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
		(Millions of ton-miles)								
2512	Tables or desks.....	356	100.0	21.1	32.0	45.8	-	-	0.8	0.3
2515	Mattresses and bedsprings.....	163	100.0	30.2	14.2	54.5	-	-	1.1	-
2516	Dressers, vanities, chests of drawers and beds (exc. hospital beds).....	148	100.0	25.6	25.3	44.4	-	0.9	3.8	-
2517	Cabinets and cases.....	463	100.0	42.2	36.0	21.0	-	-	.8	-
2519	Household and office furniture, n.e.c.....	861	100.0	64.8	26.3	7.4	-	-	1.5	-
253	Public building and related furniture.....	167	100.0	52.1	29.9	17.7	0.1	-	.2	-
254	Partitions, shelving, lockers, and office and store fixtures...	331	100.0	14.4	59.2	25.4	-	-	1.0	-
2542	Metal partitions, shelving, lockers and office and store fixtures.....	237	100.0	19.9	65.2	13.8	.1	-	.9	.1
259	Miscellaneous furniture and fixtures.....	232	100.0	48.6	42.8	7.2	-	-	1.4	-
391	Jewelry, silverware and plated ware.....	15	100.0	18.1	47.3	.1	3.2	-	30.8	.5
3911	Jewelry, precious metal; jewelers' findings, materials, and scrap; lapidary work; and cut or polished diamonds.....	2	100.0	.2	1.6	-	9.0	-	85.9	3.3
395	Pens, pencils and other office and artists' materials.....	41	100.0	1.1	78.1	.3	1.8	.4	18.0	.3
398	Miscellaneous manufactured products.....	824	100.0	57.2	26.5	13.4	-	.8	2.0	.1
3988	Morticians' goods.....	184	100.0	38.3	13.9	42.4	-	-	5.2	.2
399	Miscellaneous manufactured products.....	112	100.0	4.6	83.8	.8	.1	-	8.0	2.7
3993	Signs and advertising displays.	42	100.0	2.8	85.6	2.1	.2	-	9.2	.1
3999	Manufactured products, n.e.c....	68	100.0	5.9	82.0	-	.1	.1	7.5	4.4

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 251, 253, 254, 259, 391, 393, 394, 395, 396, 398, and 399.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 6. Tons of Shipments—Distance Shipped and
Commodity: 1963

TCC code	Commodity	Tons (thousands)	Percent distribution by distance of shipment								
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
	Total products shipped.	9,494	100.0	22.3	15.5	12.2	9.4	7.4	22.2	4.7	6.3
	Total primary com- modities ¹	8,714	100.0	20.4	15.9	12.3	9.7	7.9	22.9	4.9	6.0
	Total other com- modities ²	780	100.0	42.7	10.8	11.7	5.7	2.4	14.8	2.4	9.5
	Selected Primary Commodities ³										
251	Household and office furniture.....	5,550	100.0	24.0	16.5	12.8	9.2	8.9	19.6	4.5	4.5
2511	Chairs, rockers, benches and stools.....	495	100.0	28.6	17.6	14.4	8.8	6.9	17.0	3.0	3.7
2512	Tables or desks.....	860	100.0	8.4	16.2	17.8	14.6	18.3	18.7	4.0	2.0
2515	Mattresses and bedsprings	1,065	100.0	60.0	23.2	5.4	3.1	1.3	5.4	1.3	.3
2516	Dressers, vanities, chests of drawers and beds (exc.hospital beds)	403	100.0	20.1	11.9	18.9	13.6	9.7	22.6	1.8	1.4
2517	Cabinets and cases.....	1,091	100.0	20.6	17.9	11.4	6.8	10.6	22.1	8.7	1.9
2519	Household and office furniture, n.e.c.....	1,351	100.0	9.9	9.8	14.1	11.2	8.8	30.0	5.0	11.2
253	Public building and related furniture.....	265	100.0	6.8	7.7	21.2	5.4	8.6	32.8	7.5	10.0
254	Partitions, shelving, lockers, and office and store fixtures.....	687	100.0	24.8	8.8	11.8	8.8	8.5	26.1	5.4	5.8
2542	Metal partitions, shelv- ing, lockers and office and store fixtures.....	471	100.0	30.3	6.9	9.5	4.3	8.9	27.1	5.1	7.9
259	Miscellaneous furniture and fixtures.....	393	100.0	10.4	10.1	11.6	5.7	3.5	46.2	6.6	5.9
391	Jewelry, silverware and plated ware.....	16	100.0	6.7	14.4	8.6	10.6	4.0	16.2	10.9	28.6
3911	Jewelry, precious metal; jewelers' findings, mate- rials, and scrap; lapi- dary work; and cut or polished diamonds.....	2	100.0	11.6	11.2	6.1	7.6	5.8	21.5	14.3	21.9
395	Pens, pencils and other office and artists' materials.....	99	100.0	17.1	28.7	6.8	20.6	6.3	11.7	2.9	5.9
398	Miscellaneous manufactured products.....	1,396	100.0	12.5	19.3	9.9	13.4	5.2	24.6	4.9	10.2
3988	Morticians' goods.....	438	100.0	18.1	27.7	13.7	10.9	5.8	15.8	1.8	6.2
399	Miscellaneous manufactured products.....	195	100.0	7.5	19.9	7.7	10.8	6.5	33.6	7.5	6.5
3993	Signs and advertising displays.....	85	100.0	14.2	11.0	8.1	20.4	11.9	24.4	5.8	4.2
3999	Manufactured products, n.e.c.....	107	100.0	2.1	27.0	7.5	3.3	2.3	40.9	8.6	8.3

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 251, 253, 254, 259, 391, 393, 394, 395, 396, 398, and 399.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 7. Tons of Shipments—Means of Transport, Geographic Division of Origin, and Distance Shipped: 1963

Geographic division and distance	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
United States, total.....	9,494	100.0	22.4	39.8	35.5	0.1	0.4	1.5	0.3
Under 200 miles.....	3,585	100.0	5.9	36.1	56.3	-	.1	.9	.7
200 to 399 miles.....	2,049	100.0	16.7	48.1	34.1	-	-	.9	.2
400 to 599 miles.....	1,370	100.0	24.9	46.7	27.3	-	-	1.1	-
600 to 999 miles.....	1,445	100.0	42.6	39.6	15.1	.1	-	2.6	-
1,000 miles and over.....	1,045	100.0	59.0	27.1	6.4	.3	3.4	3.6	.2
New England and Middle Atlantic.....	3,248	100.0	21.9	42.2	32.4	.1	1.2	1.4	.8
Under 200 miles.....	1,630	100.0	2.9	43.0	51.7	-	.1	.9	1.4
200 to 399 miles.....	480	100.0	15.8	57.7	24.8	.1	.1	1.5	-
400 to 599 miles.....	300	100.0	35.0	55.2	7.8	.1	-	1.7	.2
600 to 999 miles.....	362	100.0	50.1	35.1	12.3	.1	-	2.4	-
1,000 miles and over.....	476	100.0	63.3	21.7	4.9	.5	7.3	2.1	.2
East North Central and West									
North Central.....	2,653	100.0	23.0	53.9	20.2	.1	-	2.7	.1
Under 200 miles.....	857	100.0	14.7	41.2	42.7	-	.1	1.2	.1
200 to 399 miles.....	617	100.0	17.4	66.0	15.2	-	-	1.3	.1
400 to 599 miles.....	389	100.0	23.1	66.4	8.6	.1	-	1.8	-
600 to 999 miles.....	521	100.0	32.0	58.8	4.0	.3	-	4.8	.1
1,000 miles and over.....	269	100.0	44.8	39.0	7.9	.1	.1	7.9	.2
South Atlantic, East South Central and West South Central.....	3,322	100.0	22.5	24.8	52.0	-	-	.6	.1
Under 200 miles.....	960	100.0	3.6	17.4	78.5	-	-	.5	-
200 to 399 miles.....	907	100.0	16.6	29.3	53.4	-	-	.3	.4
400 to 599 miles.....	671	100.0	21.3	31.2	47.1	-	-	.4	-
600 miles and over.....	784	100.0	53.6	23.0	22.2	-	.1	1.1	-
Mountain and Pacific ¹	271	100.0	21.5	54.3	21.3	.2	.5	2.1	.1
Under 200 miles.....	138	100.0	2.3	54.7	39.2	-	.9	2.7	.2
200 miles and over.....	133	100.0	41.6	53.7	2.7	.4	.1	1.5	-

¹No data were obtained on shipments originating in Alaska and Hawaii.

CENSUS GEOGRAPHIC DIVISIONS

New England—Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut

Middle Atlantic—New York, New Jersey, Pennsylvania

East North Central—Ohio, Indiana, Illinois, Michigan, Wisconsin

West North Central—Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, Kansas

South Atlantic—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida

East South Central—Kentucky, Tennessee, Alabama, Mississippi

West South Central—Arkansas, Louisiana, Oklahoma, Texas

Mountain—Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada

Pacific—Washington, Oregon, California, Alaska, Hawaii

TABLE 8. Tons and Ton-Miles of Shipments—Means of Transport and Geographic Division of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
United States, total.....	9,494	100.0	22.4	39.8	35.5	0.1	0.4	1.5	0.3
Shipments originating from—									
New England.....	527	100.0	19.3	55.1	18.5	.4	.1	3.2	3.4
Middle Atlantic.....	2,721	100.0	22.4	39.7	35.1	.1	1.4	1.0	.3
East North Central.....	2,427	100.0	24.2	55.0	17.7	.1	-	2.9	.1
West North Central.....	226	100.0	10.7	41.7	46.7	-	-	.9	-
South Atlantic.....	2,222	100.0	22.9	28.0	48.5	-	-	.6	-
East South Central.....	635	100.0	21.0	14.5	63.9	-	-	.6	-
West South Central.....	465	100.0	22.5	23.4	52.9	-	-	.5	.7
Mountain.....	271	100.0	21.5	54.3	21.3	.2	.5	2.1	.1
Pacific ¹									
TON-MILES	(Millions of ton-miles)								
United States, total.....	4,467	100.0	41.4	35.9	18.1	.2	1.8	2.4	.2
Shipments originating from—									
New England.....	282	100.0	45.7	45.0	3.3	.8	.1	3.9	1.2
Middle Atlantic.....	1,266	100.0	50.2	28.8	13.1	.2	6.1	1.5	.1
East North Central.....	1,215	100.0	32.6	53.0	9.4	.1	.1	4.7	.1
West North Central.....	54	100.0	13.5	60.4	22.3	.1	-	3.7	-
South Atlantic.....	1,000	100.0	44.0	28.3	26.8	-	-	.9	-
East South Central.....	301	100.0	31.3	13.0	54.2	-	-	1.5	-
West South Central.....	212	100.0	39.8	24.4	34.7	-	-	.6	.5
Mountain.....	137	100.0	49.2	45.7	2.4	.6	.1	1.9	.1
Pacific ¹									

¹No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 9. Tons and Ton-Miles of Shipments—Geographic Division of Destination and of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by geographic division of destination									
		All divisions	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific ¹
TONS OF SHIPMENTS	(Thousands of tons)										
United States, total.....	9,494	100.0	5.6	23.0	20.1	8.3	19.9	5.9	8.0	2.2	7.0
Shipments originating from—											
New England.....	527	100.0	33.3	30.3	11.3	5.1	7.5	1.5	3.3	1.9	5.8
Middle Atlantic.....	2,721	100.0	6.2	43.8	17.0	4.9	15.3	2.1	3.6	.8	6.3
East North Central.....	2,427	100.0	3.5	16.4	38.5	11.1	10.0	4.3	7.0	2.6	6.6
West North Central.....	226	100.0	.1	2.8	7.6	62.9	8.0	8.6	7.0	2.0	1.0
South Atlantic.....	2,222	100.0	3.1	13.9	8.7	4.1	46.9	10.8	7.8	1.5	3.2
East South Central.....	635	100.0	5.1	13.1	27.5	8.2	16.8	18.1	7.0	2.5	1.7
West South Central.....	465	100.0	.8	2.6	11.6	15.4	3.8	3.3	49.4	6.4	6.7
Mountain.....	271	100.0	.9	4.0	3.4	2.0	.8	.2	3.7	13.4	71.6
Pacific ²											
TON-MILES	(Millions of ton-miles)										
United States, total.....	4,467	100.0	4.4	12.8	14.1	9.6	13.3	4.5	11.9	5.6	23.8
Shipments originating from—											
New England.....	282	100.0	5.0	13.2	15.3	10.0	10.6	2.5	9.1	6.3	28.0
Middle Atlantic.....	1,266	100.0	3.1	8.6	18.2	10.3	10.7	3.5	9.8	3.0	32.8
East North Central.....	1,215	100.0	4.9	15.6	11.9	10.2	10.7	3.8	12.3	6.2	24.4
West North Central.....	54	100.0	.3	9.2	11.2	27.7	21.8	8.1	9.5	5.4	6.8
South Atlantic.....	1,000	100.0	4.3	13.3	9.5	7.4	22.6	7.5	14.0	5.5	15.9
East South Central.....	301	100.0	9.2	19.5	20.9	7.3	13.8	6.7	9.7	6.1	6.8
West South Central.....	212	100.0	2.4	6.4	15.0	12.7	6.8	1.4	21.4	10.1	23.8
Mountain.....	137	100.0	4.7	18.4	11.8	5.6	3.2	.6	9.0	16.6	30.1
Pacific ²											

¹Shipments to Alaska and Hawaii from the 48 conterminous States and the District of Columbia are included.²No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 10. **Tons and Ton-Miles of Shipments—Means of Transport and Employment Size of Establishment: 1963**

Employment size of establishment	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
Total.....	9,494	100.0	22.4	39.8	35.5	0.1	0.4	1.5	0.3
Number of employees—									
Under 20 employees.....	699	100.0	2.4	61.3	31.1	-	-	1.8	3.4
20 to 99 employees.....	2,042	100.0	6.4	32.9	59.2	-	.1	1.4	-
100 to 499 employees.....	4,395	100.0	20.4	40.6	37.2	.1	-	1.6	.1
500 employees and over.....	2,358	100.0	45.9	37.7	13.4	.1	1.6	1.2	.1
TON-MILES	(Millions of ton-miles)								
Total.....	4,467	100.0	41.4	35.9	18.1	.2	1.8	2.4	.2
Number of employees—									
Under 20 employees.....	160	100.0	3.2	80.9	9.8	.1	-	3.9	2.1
20 to 99 employees.....	627	100.0	12.7	55.1	30.0	.1	.2	1.9	-
100 to 499 employees.....	2,044	100.0	34.3	38.1	24.2	.2	-	3.0	.2
500 employees and over.....	1,636	100.0	65.2	21.4	6.8	.2	4.6	1.7	.1

TABLE 11. **Tons of Shipments—Distance Shipped and Employment Size of Establishment: 1963**

Employment size of establishment	Tons (thousands)	Percent distribution by distance of shipment								
		All distances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
Total tons.....	9,494	100.0	22.3	15.5	12.2	9.4	7.4	22.2	4.7	6.3
Number of employees—										
Under 20 employees.....	699	100.0	48.6	22.8	8.6	4.5	3.3	8.2	2.1	1.9
20 to 99 employees.....	2,042	100.0	39.9	17.8	9.0	9.2	6.0	12.0	3.5	2.6
100 to 499 employees.....	4,395	100.0	17.4	15.0	13.9	9.5	8.7	25.8	5.2	4.5
500 employees and over.....	2,358	100.0	8.3	12.4	13.1	10.6	7.4	28.6	5.5	14.1

TABLE 12. **Tons of Shipments—Distance Shipped and
Production Area of Origin: 1963**

Production Area of origin	Tons (thousands)	Percent distribution by distance of shipment							
		All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
TONS OF SHIPMENTS									
Total.....	9,494	100.0	22.3	15.5	12.2	16.8	22.2	4.7	6.3
Production Areas ¹ —									
1.....	90	100.0	18.6	22.6	10.9	6.0	33.1	3.0	5.8
3.....	203	100.0	31.3	12.9	10.7	9.5	14.2	9.2	12.2
4.....	389	100.0	37.7	21.9	11.8	11.1	5.6	6.3	5.6
11.....	496	100.0	18.4	14.7	19.2	25.0	14.5	4.8	3.4
15.....	530	100.0	19.4	11.3	10.2	11.4	33.1	2.4	12.2
25.....	136	100.0	40.7	4.1	1.8	18.6	13.3	3.7	17.8
Balance of Production Areas.....	2,082	100.0	33.4	16.2	8.9	13.9	15.4	3.6	8.6
SMSA's outside Production Areas.....	1,643	100.0	12.9	22.8	13.3	19.9	21.0	6.7	3.4
Balance of United States.....	3,925	100.0	18.6	12.5	13.5	17.8	27.9	4.5	5.2

¹For description of Production Areas, see map in appendix C.

TABLE 13. **Tons and Ton-Miles of Shipments—Area of Destination
and of Origin: 1963**

Area of origin	Tons and ton-miles	Percent distribution by area of destination			
		All areas of destination	Production Areas	SMSA's outside Production Areas	Areas outside SMSA's
TONS OF SHIPMENTS	(Thousands of tons)				
United States, total.....	9,494	100.0	45.9	26.6	27.5
In Production Areas.....	3,926	100.0	51.4	22.2	26.4
In SMSA's outside Production Areas.....	1,643	100.0	43.6	27.5	28.9
Outside of SMSA's.....	3,925	100.0	41.2	30.7	28.1
TON-MILES	(Millions of ton- miles)				
United States, total.....	4,467	100.0	52.2	29.5	18.3
In Production Areas.....	1,846	100.0	57.4	25.7	16.9
In SMSA's outside Production Areas.....	734	100.0	48.6	27.2	24.2
Outside of SMSA's.....	1,887	100.0	48.5	34.2	17.3

Shipper Group 13

Stone, Clay, and Glass Products

Data for Shipper Group 13 are based on a probability sample of 36,575 shipments reported by 324 establishments. The shipper group has been divided into five subgroups which can be closely related to industries classified in the Standard Industrial Classification (SIC). (This is the system of industrial classification developed over a period of years by experts on classification in government and private industry under the guidance of the Bureau of the Budget.) The subgroup and related SIC industries are as follows:

Shipper Subgroup 131.—Flat glass
SIC 3211.—Flat glass

Shipper Subgroup 132.—Glass containers and other glass products
SIC 3221.—Glass containers
SIC 3229.—Pressed and blown glass and glassware, n.e.c.
SIC 3231.—Glass products, made of purchased glass

Shipper Subgroup 133.—Structural clay, pottery and related products
SIC 3251.—Brick and structural clay tile
SIC 3253.—Ceramic wall and floor tile
SIC 3255.—Clay refractories
SIC 3259.—Structural clay products, n.e.c.
SIC 3261.—Vitreous china plumbing fixtures and china and earthenware fittings and bathroom accessories
SIC 3262.—Vitreous china table and kitchen articles
SIC 3263.—Fine earthenware (whiteware) table and kitchen articles
SIC 3264.—Porcelain electrical supplies
SIC 3269.—Pottery products, n.e.c.
SIC 3297.—Nonclay refractories

Shipper Subgroup 134.—Concrete, gypsum and plaster
SIC 3271.—Concrete brick and block
SIC 3272.—Concrete products, except block and brick

SIC 3273.—Ready mixed concrete
SIC 3274.—Lime
SIC 3275.—Gypsum products

Shipper Subgroup 135.—Hydraulic cement; cut stone and stone products; abrasives, asbestos and miscellaneous nonmetallic mineral products
SIC 3241.—Cement, hydraulic
SIC 3281.—Cut stone and stone products
SIC 3291.—Abrasive products
SIC 3292.—Asbestos products
SIC 3293.—Steam and other packing, and pipe and boiler covering
SIC 3295.—Minerals and earths, ground otherwise treated
SIC 3296.—Mineral wool
SIC 3299.—Nonmetallic mineral products, n.e.c.

Commodities primary to these industries are classified in the following Transportation Commodity Classifications (TCC):¹

TCC 321.—Flat glass
TCC 322.—Glass and glassware, pressed and blown
TCC 324.—Hydraulic cement
TCC 325.—Structural clay products
TCC 326.—Pottery and related products
TCC 327.—Concrete, gypsum, plaster, and plaster products
TCC 328.—Cut stone and stone products
TCC 329.—Abrasives, asbestos, and miscellaneous nonmetallic mineral products

Data for these commodities are included in the Commodity Series chapter: Commodity Group 32, Stone, Clay, and Glass Products.

¹See *Commodity Classification for Transportation Statistics, 1963, Executive Office of the President, Bureau of the Budget.*

Because the data are based on a probability sample, they are subject to sampling variability. The term "sampling variability" refers to the differences that would be expected between results of a sample survey and results that would have been obtained from a

complete enumeration of plants and shipping documents. Estimates of sampling variability for Shipper Group 13 on total tons and on key items, are shown below:

Item	Estimated tons based on sample (thousands)	Sampling variability (percent)
Total tons.....	175,597	8.3
SHIPPER SUBGROUPS		
131 Flat glass.....	1,365	5.2
132 Glass containers and other glass products.....	11,619	16.9
133 Structural clay, pottery and related products.....	22,192	13.9
134 Concrete, gypsum and plaster..	59,264	19.1
135 Hydraulic cement; cut stone and stone products; abrasives, asbestos and miscellaneous nonmetallic mineral products.	81,157	13.8
MEANS OF TRANSPORT		
Rail.....	52,887	16.3
Motor carrier.....	62,719	16.1
Private truck.....	49,341	13.8
Other.....	10,650	71.6
ORIGIN OF SHIPMENT (Geographic Division)		
New England.....	487	27.3
Middle Atlantic.....	23,729	36.1
East North Central.....	41,829	23.6
West North Central.....	18,302	34.1
South Atlantic.....	25,837	34.7
East South Central.....	12,467	46.8
West South Central.....	15,697	21.7
Mountain and Pacific.....	37,249	22.4

TABLE 1. **Tons and Ton-Miles of Shipments—Means of Transport and Shipper Subgroup: 1963**

Shipper subgroup	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
13 Stone, clay, and glass products...	175,597	100.0	30.1	35.8	28.1	-	5.9	-	0.1
131 Flat glass.....	1,365	100.0	44.9	39.8	15.0	-	.2	-	.1
132 Glass containers and other glass products.....	11,619	100.0	20.0	63.9	15.6	0.1	.1	0.2	.1
133 Structural clay, pottery and related products.....	22,192	100.0	33.1	26.3	40.3	-	-	.1	.2
134 Concrete, gypsum and plaster..	59,264	100.0	34.6	11.4	53.4	-	.5	-	.1
135 Hydraulic cement; cut stone and stone products; abrasives, asbestos, and miscellaneous nonmetallic mineral products.....	81,157	100.0	27.2	52.0	8.3	-	12.5	-	-
TON-MILES	(Millions of ton-miles)								
13 Stone, clay, and glass products...	27,879	100.0	45.5	31.2	14.9	-	8.1	.2	.1
131 Flat glass.....	627	100.0	59.4	31.0	9.2	-	.3	-	.1
132 Glass containers and other glass products.....	2,985	100.0	30.2	56.4	12.3	.1	.2	.6	.2
133 Structural clay, pottery and related products.....	4,740	100.0	58.4	19.9	21.2	-	.1	.3	.1
134 Concrete, gypsum and plaster..	6,996	100.0	57.0	12.2	30.0	-	.7	-	.1
135 Hydraulic cement; cut stone and stone products; abrasives, asbestos, and miscellaneous nonmetallic mineral products.....	12,531	100.0	37.1	40.1	5.0	.1	17.5	.2	-

TABLE 2. Tons of Shipments—Means of Transport and
Distance Shipped: 1963

Distance shipped ¹	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
All distances.....	175,597	100.0	30.1	35.8	28.1	-	5.9	-	0.1
Under 50 miles.....	48,143	100.0	16.3	34.9	48.7	-	-	-	.1
50 to 99 miles.....	41,885	100.0	20.9	45.7	30.6	-	2.7	-	.1
100 to 199 miles.....	38,811	100.0	33.1	36.5	21.2	-	9.2	-	-
200 to 299 miles.....	23,228	100.0	37.2	26.9	15.1	-	20.8	-	-
300 to 399 miles.....	10,362	100.0	66.5	23.1	4.7	-	5.5	0.1	.1
400 to 499 miles.....	5,263	100.0	56.3	31.2	7.1	-	5.3	-	.1
500 to 599 miles.....	2,877	100.0	70.0	22.7	7.1	-	-	.1	.1
600 to 799 miles.....	2,855	100.0	51.2	44.6	4.1	-	-	.1	-
800 to 999 miles.....	873	100.0	59.7	31.4	7.4	-	.7	.3	.5
1,000 to 1,499 miles.....	721	100.0	78.8	14.0	5.6	0.1	.6	.8	.1
1,500 miles or more.....	579	100.0	73.2	16.8	5.7	.7	.3	3.2	.1

NOTE: Percent distributions by ton-miles are about the same as those for tons because data are grouped in mileage blocks.

¹Distances of shipments to foreign destinations are calculated only to the American port of exit.

TABLE 3. Tons and Ton-Miles of Shipments—Means of Transport and Weight: 1963

Weight	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS		(Thousands of tons)							
Total.....	¹ 101,642	100.0	37.7	40.2	21.7	-	0.3	-	0.
Shipments—									
Under 1,000 pounds.....	389	100.0	6.6	76.4	11.3	0.5	.2	4.8	.2
Under 50 pounds.....	8	100.0	3.3	27.0	3.9	3.2	.1	62.3	.2
50 to 99 pounds.....	16	100.0	4.9	66.2	11.3	1.2	-	16.3	.1
100 to 199 pounds.....	52	100.0	6.6	79.6	6.9	1.3	.2	5.3	.1
200 to 499 pounds.....	139	100.0	7.7	79.7	8.1	.3	.2	3.7	.3
500 to 999 pounds.....	174	100.0	6.0	76.1	15.5	.2	.1	1.8	.3
1,000 to 9,999 pounds.....	2,061	100.0	7.2	51.0	40.2	.2	.3	.8	.3
1,000 to 1,999 pounds.....	299	100.0	3.9	65.7	27.1	.2	-	2.8	.3
2,000 to 4,999 pounds.....	629	100.0	7.7	59.9	31.2	.2	.3	.6	.1
5,000 to 9,999 pounds.....	1,133	100.0	7.8	42.2	48.7	.2	.3	.4	.4
10,000 to 29,999 pounds.....	12,246	100.0	4.8	56.8	38.1	-	-	-	.3
10,000 to 19,999 pounds.....	4,029	100.0	3.1	47.5	49.1	-	-	-	.3
20,000 to 29,999 pounds.....	8,217	100.0	5.6	61.5	32.7	-	-	-	.2
30,000 to 59,999 pounds.....	40,734	100.0	7.1	62.7	29.8	-	.3	-	.1
30,000 to 39,999 pounds.....	13,545	100.0	6.8	62.7	29.9	-	.5	-	.1
40,000 to 59,999 pounds.....	27,189	100.0	7.3	62.5	29.8	-	.3	-	.1
60,000 to 89,999 pounds.....	12,200	100.0	77.3	12.7	10.0	-	-	-	-
90,000 pounds and over.....	34,012	100.0	74.1	16.1	9.3	-	.5	-	-
TON-MILES		(Millions of ton-miles)							
Total.....	¹ 17,866	100.0	53.7	32.7	12.8	.1	.4	.2	.1
Shipments—									
Under 1,000 pounds.....	188	100.0	11.3	74.2	1.8	.9	.3	10.9	.6
Under 50 pounds.....	4	100.0	2.2	24.6	1.3	5.8	.1	65.7	.3
50 to 99 pounds.....	8	100.0	7.3	60.3	3.4	2.6	-	26.4	-
100 to 199 pounds.....	27	100.0	11.5	71.8	1.2	2.9	.3	12.3	-
200 to 499 pounds.....	73	100.0	11.6	74.6	1.5	.4	.4	11.1	.4
500 to 999 pounds.....	76	100.0	12.0	79.1	2.1	.2	.1	5.4	1.1
1,000 to 9,999 pounds.....	547	100.0	18.0	61.0	13.3	1.3	1.3	4.1	1.0
1,000 to 1,999 pounds.....	111	100.0	9.0	71.2	5.0	1.2	-	13.2	.4
2,000 to 4,999 pounds.....	192	100.0	19.1	67.8	9.5	.2	2.0	1.0	.4
5,000 to 9,999 pounds.....	244	100.0	21.3	50.9	20.0	2.1	1.5	2.5	1.7
10,000 to 29,999 pounds.....	2,174	100.0	12.8	64.7	22.3	.1	-	-	.1
10,000 to 19,999 pounds.....	637	100.0	10.0	55.8	33.8	.2	-	.1	.1
20,000 to 29,999 pounds.....	1,537	100.0	13.9	68.5	17.5	-	-	-	.1
30,000 to 59,999 pounds.....	5,571	100.0	19.8	59.0	20.8	-	.3	-	.1
30,000 to 39,999 pounds.....	2,477	100.0	14.2	66.9	18.7	-	.1	-	.1
40,000 to 59,999 pounds.....	3,094	100.0	24.2	52.7	22.5	-	.4	-	.2
60,000 to 89,999 pounds.....	3,208	100.0	91.5	5.0	3.5	-	-	-	-
90,000 pounds and over.....	6,178	100.0	83.5	8.3	7.5	-	.7	-	-

NOTE: Because of rounding, detail may not add to total.

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 4. Tons of Shipments—Means of Transport,
Distance Shipped, and Weight: 1963

Distance and weight	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS									
Total.....	101,642	100.0	37.7	40.2	21.7	-	0.3	-	0.1
Under 200 miles.....	70,768	100.0	28.3	45.8	25.6	-	.2	-	.1
Under 1,000 pounds.....	137	100.0	.8	66.4	30.2	0.2	-	2.2	.2
1,000 to 9,999 pounds.....	1,167	100.0	.6	36.2	62.8	-	-	.4	-
10,000 to 29,999 pounds.....	8,296	100.0	1.2	50.9	47.5	-	-	-	.4
30,000 to 59,999 pounds.....	32,879	100.0	2.6	63.9	33.0	-	.4	-	.1
60,000 pounds and over.....	28,289	100.0	67.4	23.6	9.0	-	-	-	-
200 to 399 miles.....	21,470	100.0	58.0	25.3	15.8	-	.8	-	.1
Under 1,000 pounds.....	97	100.0	3.6	92.6	1.0	.2	.2	2.2	.2
1,000 to 9,999 pounds.....	518	100.0	8.1	76.8	14.7	-	.1	.1	.2
10,000 to 29,999 pounds.....	2,455	100.0	10.0	68.1	21.8	-	-	-	.1
30,000 pounds and over.....	18,400	100.0	66.0	17.8	15.2	-	.9	-	.1
400 miles and over.....	9,404	100.0	61.8	31.4	6.2	.1	.1	.3	.1
Under 1,000 pounds.....	155	100.0	13.6	75.3	1.0	.9	.2	8.7	.3
1,000 to 9,999 pounds.....	376	100.0	26.3	61.4	5.0	1.1	1.5	3.3	1.4
10,000 pounds and over.....	8,873	100.0	64.1	29.4	6.3	-	.1	-	.1

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 5. Tons and Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons and ton-miles	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
	TONS OF SHIPMENTS	(Thousands of tons)								
	Total products shipped.....	175,597	100.0	30.1	35.8	28.1	-	5.9	-	0.1
	Total primary commodities ¹ ..	159,042	100.0	29.6	38.1	25.7	-	6.6	-	-
	Total other commodities ²	16,555	100.0	34.8	13.6	51.3	-	-	-	.3
	Selected Primary Commodities ³									
321	Flat glass.....	1,492	100.0	46.0	39.8	13.6	-	.2	0.3	.1
322	Glass and glassware, pressed and blown.....	11,478	100.0	19.9	64.5	15.3	-	.1	.1	.1
3221	Glass containers, caps and covers.....	9,647	100.0	17.6	66.3	15.8	-	.1	.1	.1
3229	Glass products (except flat glass and glass containers)...	1,691	100.0	31.9	53.7	13.3	-	.3	.4	.4
324	Hydraulic cement.....	67,037	100.0	25.6	49.9	9.4	-	15.1	-	-
325	Structural clay products.....	21,209	100.0	33.6	24.6	41.5	-	-	.1	.2
3251	Brick and structural clay tile.	13,649	100.0	31.3	18.3	50.2	-	-	-	.2
3253	Ceramic wall and floor tile....	420	100.0	13.5	64.3	21.4	-	.4	.4	-
3255	Refractories, clay and non-clay.....	5,227	100.0	53.1	36.3	10.3	-	-	.2	.1
326	Pottery and related products....	473	100.0	28.9	53.3	15.6	0.1	.6	1.2	.3
3262	Vitreous china and earthenware table and kitchen articles....	224	100.0	19.4	75.4	2.6	.2	.1	1.7	.6
327	Concrete, gypsum, plaster, and plaster products.....	46,625	100.0	33.5	18.3	47.6	-	.6	-	-
3271	Concrete products.....	23,887	100.0	3.4	20.6	76.0	-	-	-	-
3275	Gypsum products.....	17,608	100.0	79.1	20.1	.1	-	.7	-	-
328	Cut stone and stone products....	1,763	100.0	14.3	48.0	37.6	-	.1	-	-
329	Abrasives, asbestos, and miscellaneous nonmetallic mineral products.....	8,965	100.0	42.9	47.3	9.6	-	-	.2	-
3291	Abrasive products.....	310	100.0	6.8	80.6	10.9	.1	-	1.6	-
3292	Asbestos products.....	1,987	100.0	21.6	74.1	3.8	-	-	.5	-
	TON-MILES	(Millions of ton-miles)								
	Total products shipped.....	27,879	100.0	45.5	31.2	14.9	-	8.1	.2	.1
	Total primary commodities ¹ ..	25,567	100.0	45.1	31.1	14.7	-	8.8	.2	.1
	Total other commodities ²	2,312	100.0	48.9	32.8	17.5	.1	.2	.3	.2
	Selected Primary Commodities ³									
321	Flat glass.....	678	100.0	59.6	31.6	8.3	-	.3	.1	.1
322	Glass and glassware, pressed and blown.....	3,060	100.0	33.6	53.9	11.7	-	.2	.4	.2
3221	Glass containers, caps and covers.....	2,217	100.0	26.7	59.2	13.9	-	-	.1	.1
3229	Glass products (except flat glass and glass containers)...	752	100.0	51.3	39.2	6.6	-	.6	1.5	.8

See footnotes at end of table.

TABLE 5. Tons and Ton-Miles of Shipments—Means of Transport and Commodity: 1963—Continued

TCC code	Commodity	Tons and ton-miles	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
		(Millions of ton-miles)								
324	Hydraulic cement.....	8,274	100.0	35.6	31.9	6.1	-	26.4	-	-
325	Structural clay products.....	4,384	100.0	59.3	18.2	22.4	-	-	0.1	-
3251	Brick and structural clay tile.	2,384	100.0	63.1	10.8	26.1	-	-	-	-
3253	Ceramic wall and floor tile....	196	100.0	25.8	59.1	14.7	-	-	.4	-
3255	Refractories, clay and non-clay.....	1,421	100.0	73.2	21.7	4.7	-	-	.3	0.1
326	Pottery and related products.....	275	100.0	56.5	32.6	7.6	0.2	.9	2.0	.2
3262	Vitreous china and earthenware table and kitchen articles....	109	100.0	40.7	52.5	2.0	.3	.2	3.8	.5
327	Concrete, gypsum, plaster, and plaster products.....	6,333	100.0	50.7	22.5	26.0	-	.8	-	-
3271	Concrete products.....	2,426	100.0	16.2	38.7	45.1	-	-	-	-
3275	Gypsum products.....	3,117	100.0	84.5	15.1	.1	-	.2	-	.1
328	Cut stone and stone products.....	233	100.0	12.4	59.9	26.1	-	1.6	-	-
329	Abrasives, asbestos, and miscellaneous nonmetallic mineral products.....	2,330	100.0	50.8	42.6	5.1	.3	-	1.2	-
3291	Abrasive products.....	155	100.0	6.2	84.4	3.9	.2	-	5.3	-
3292	Asbestos products.....	664	100.0	21.5	69.4	7.4	-	-	1.7	-

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 321, 322, 324, 325, 326, 327, 328, and 329.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 6. Tons of Shipments—Distance Shipped and
Commodity: 1963

TCC code	Commodity	Tons (thousands)	Percent distribution by distance of shipment								
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
	Total products shipped..	175,597	100.0	51.3	22.1	13.2	5.9	3.0	3.8	0.4	0.3
	Total primary com- modities ¹	159,042	100.0	50.0	22.6	14.2	6.2	2.9	3.4	.4	.3
	Total other com- modities ²	16,555	100.0	64.2	17.3	4.1	3.4	3.5	7.0	.3	.2
	Selected Primary Commodities ³										
321	Flat glass.....	1,492	100.0	10.4	12.5	20.5	14.2	13.9	20.0	4.0	4.5
322	Glass and glassware, pressed and blown.....	11,478	100.0	22.7	26.7	23.6	9.8	6.8	8.0	.9	1.5
3221	Glass containers, caps and covers.....	9,647	100.0	25.3	26.4	25.0	9.6	5.8	7.1	.4	.4
3229	Glass products (except flat glass and glass containers).....	1,691	100.0	9.8	29.9	15.4	11.0	12.2	12.3	1.5	7.9
324	Hydraulic cement.....	67,038	100.0	56.4	25.8	11.6	3.4	1.8	.9	-	.1
325	Structural clay products...	21,209	100.0	39.8	22.7	16.8	8.4	3.4	7.8	.6	.5
3251	Brick and structural clay tile.....	13,649	100.0	46.8	23.2	13.8	6.2	2.9	6.6	.3	.2
3253	Ceramic wall and floor tile.....	420	100.0	9.1	10.7	19.8	10.9	10.3	33.1	4.5	1.6
3255	Refractories, clay and nonclay.....	5,227	100.0	24.3	23.4	23.3	12.2	4.4	9.9	1.3	1.2
326	Pottery and related products.....	473	100.0	15.3	17.4	9.0	11.3	9.4	18.8	6.6	12.2
3262	Vitreous china and earthenware table and kitchen articles.....	224	100.0	19.0	17.6	11.1	11.4	10.0	17.3	6.2	7.4
327	Concrete, gypsum, plaster, and plaster products.....	46,625	100.0	57.3	16.6	13.9	7.2	2.2	2.4	.4	-
3271	Concrete products.....	23,887	100.0	73.3	15.1	5.3	1.0	1.9	2.7	.7	-
3275	Gypsum products.....	17,608	100.0	39.1	20.3	19.1	17.2	1.9	2.3	.1	-
328	Cut stone and stone products.....	1,763	100.0	38.9	43.5	10.2	4.3	2.4	.3	.4	-
329	Abrasives, asbestos, and miscellaneous nonmetallic mineral products.....	8,965	100.0	32.8	22.4	16.7	10.1	7.3	8.0	1.5	1.2
3291	Abrasive products.....	310	100.0	8.2	9.2	7.0	30.8	9.9	29.8	.9	4.2
3292	Asbestos products.....	1,987	100.0	13.5	31.7	16.3	7.9	4.9	22.2	2.8	.7

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 321, 322, 324, 325, 326, 327, 328, and 329.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 7. Tons of Shipments—Means of Transport, Geographic Division of Origin, and Distance Shipped: 1963

Geographic division and distance	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
United States, total.....	175,597	100.0	30.1	35.8	28.1	-	5.9	-	0.1
Under 200 miles.....	128,839	100.0	22.9	38.8	34.5	-	3.7	-	.1
200 to 399 miles.....	33,590	100.0	46.2	25.7	11.9	-	16.1	0.1	-
400 to 599 miles.....	8,140	100.0	61.1	28.2	7.1	-	3.5	-	.1
600 to 999 miles.....	3,728	100.0	53.1	41.5	4.9	-	.2	.2	.1
1,000 miles and over.....	1,300	100.0	76.3	15.2	5.7	0.3	.5	1.9	.1
New England and Middle Atlantic.....	24,216	100.0	20.7	44.6	34.5	-	-	.1	.1
Under 200 miles.....	19,266	100.0	16.8	40.7	42.4	-	-	-	.1
200 to 399 miles.....	3,783	100.0	35.0	61.5	3.2	.1	-	.1	.1
400 to 599 miles.....	606	100.0	34.3	62.7	2.2	.1	-	.4	.3
600 to 999 miles.....	299	100.0	25.9	57.1	15.7	.1	-	1.1	.1
1,000 miles and over.....	262	100.0	62.8	22.0	8.5	1.6	1.7	3.3	.1
East North Central and West North Central.....	60,131	100.0	29.4	38.0	15.4	-	17.1	-	.1
Under 200 miles.....	42,283	100.0	26.5	41.8	20.7	-	10.9	-	.1
200 to 399 miles.....	12,318	100.0	27.9	25.0	3.1	-	44.0	-	-
400 to 599 miles.....	3,332	100.0	55.5	33.3	2.7	-	8.4	-	.1
600 miles and over.....	2,198	100.0	54.6	42.9	1.7	-	-	.6	.2
South Atlantic, East South Central and West South Central.....	54,001	100.0	35.9	35.0	29.0	-	-	-	.1
Under 200 miles.....	36,766	100.0	19.4	40.9	39.6	-	-	-	.1
200 to 399 miles.....	12,776	100.0	73.2	20.6	6.0	-	-	.1	.1
400 to 599 miles.....	2,605	100.0	63.8	28.4	7.8	-	-	-	-
600 miles and over.....	1,854	100.0	66.1	27.3	6.0	-	.2	.3	.1
Mountain and Pacific ¹	37,249	100.0	29.1	27.3	43.2	-	.4	-	-
Under 200 miles.....	30,524	100.0	25.9	30.9	42.7	-	.4	-	.1
200 miles and over.....	6,725	100.0	43.6	10.9	45.4	-	.1	-	-

¹No data were obtained on shipments originating in Alaska and Hawaii.

CENSUS GEOGRAPHIC DIVISIONS

New England—Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut
 Middle Atlantic—New York, New Jersey, Pennsylvania
 East North Central—Ohio, Indiana, Illinois, Michigan, Wisconsin
 West North Central—Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, Kansas
 South Atlantic—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida
 East South Central—Kentucky, Tennessee, Alabama, Mississippi
 West South Central—Arkansas, Louisiana, Oklahoma, Texas
 Mountain—Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada
 Pacific—Washington, Oregon, California, Alaska, Hawaii

TABLE 8. Tons and Ton-Miles of Shipments—Means of Transport and Geographic Division of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
United States, total.....	175,597	100.0	30.1	35.8	28.1	-	5.9	-	0.1
Shipments originating from—									
New England.....	487	100.0	10.2	66.4	22.0	0.1	.6	0.7	-
Middle Atlantic.....	23,729	100.0	20.9	44.1	34.8	-	-	.1	.1
East North Central.....	41,829	100.0	20.2	46.2	15.7	-	17.8	-	.1
West North Central.....	18,302	100.0	50.4	19.4	14.7	-	15.4	-	.1
South Atlantic.....	25,837	100.0	41.7	27.5	30.5	-	.1	.1	.1
East South Central.....	12,467	100.0	33.1	34.9	32.0	-	-	-	-
West South Central.....	15,697	100.0	28.3	47.6	24.0	-	-	-	.1
Mountain.....	37,249	100.0	29.1	27.3	43.2	-	.4	-	-
Pacific ¹									
TON-MILES	(Millions of ton-miles)								
United States, total.....	27,879	100.0	45.5	31.2	14.9	-	8.1	.2	.1
Shipments originating from—									
New England.....	208	100.0	22.5	65.0	6.8	.2	2.2	3.3	-
Middle Atlantic.....	3,464	100.0	31.2	46.2	21.6	.3	.1	.5	.1
East North Central.....	7,630	100.0	32.1	37.8	5.9	-	23.9	.2	.1
West North Central.....	2,568	100.0	62.9	16.2	4.9	-	15.8	.1	.1
South Atlantic.....	4,910	100.0	69.6	19.3	10.6	-	.1	.3	.1
East South Central.....	1,925	100.0	49.5	35.4	15.1	-	-	-	-
West South Central.....	2,923	100.0	44.1	38.1	17.6	-	-	.1	.1
Mountain.....	4,251	100.0	42.7	22.0	35.0	-	.3	-	-
Pacific ¹									

¹No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 9. Tons and Ton-Miles of Shipments—Geographic Division of Destination and of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by geographic division of destination									
		All divisions	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific ¹
TONS OF SHIPMENTS	(Thousands of tons)										
United States, total.....	175,597	100.0	2.3	12.9	21.7	8.3	16.2	8.2	8.9	2.8	18.7
Shipments originating from—											
New England.....	487	100.0	25.4	43.5	17.5	1.4	5.5	1.3	1.4	.3	3.7
Middle Atlantic.....	23,729	100.0	14.2	69.3	4.9	.3	10.1	.6	.2	.1	.3
East North Central.....	41,829	100.0	.7	10.3	77.1	3.9	3.5	2.7	.8	.7	.3
West North Central.....	18,302	100.0	.1	.6	15.2	62.5	.5	16.5	4.0	.2	.4
South Atlantic.....	25,837	100.0	1.0	5.9	3.3	.3	83.4	4.9	.8	-	.4
East South Central.....	12,467	100.0	.4	1.2	4.6	1.3	21.7	63.6	7.0	.1	.1
West South Central.....	15,697	100.0	-	.1	1.5	2.4	.9	6.3	85.6	2.6	.6
Mountain.....	37,249	100.0	-	.1	-	2.0	-	-	.1	11.2	86.6
Pacific ²											
TON-MILES	(Millions of ton-miles)										
United States, total.....	27,879	100.0	3.4	13.0	19.5	9.0	17.9	7.7	9.7	5.6	14.2
Shipments originating from—											
New England.....	208	100.0	3.9	23.7	29.1	3.7	8.1	3.0	4.9	1.4	22.2
Middle Atlantic.....	3,464	100.0	16.3	46.3	9.2	1.7	15.2	2.1	2.1	1.6	5.5
East North Central.....	7,630	100.0	2.3	16.7	50.6	7.9	7.0	3.9	3.6	4.7	3.3
West North Central.....	2,568	100.0	.5	3.1	18.3	45.8	2.5	17.5	6.2	1.4	4.7
South Atlantic.....	4,910	100.0	2.8	8.7	6.3	1.0	63.8	8.9	3.2	.1	5.2
East South Central.....	1,925	100.0	2.2	4.4	12.5	3.9	32.9	30.3	11.2	.8	1.8
West South Central.....	2,923	100.0	.2	.6	5.1	5.2	2.9	10.6	61.7	9.1	4.6
Mountain.....	4,251	100.0	-	2.1	.1	9.1	-	-	.5	19.5	68.7
Pacific ²											

¹Shipments to Alaska and Hawaii from the 48 conterminous States and the District of Columbia are included.²No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 10. Tons and Ton-Miles of Shipments—Means of Transport and Employment Size of Establishment: 1963

Employment size of establishment	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
Total.....	175,597	100.0	30.1	35.8	28.1	-	5.9	-	0.1
Number of employees—									
Under 20 employees.....	11,237	100.0	.7	4.2	95.0	-	-	-	.1
20 to 99 employees.....	35,807	100.0	23.7	26.6	49.3	-	.3	-	.1
100 to 499 employees.....	99,883	100.0	37.5	42.5	17.2	-	2.7	-	.1
500 employees and over.....	28,670	100.0	23.9	35.9	13.4	-	26.7	0.1	-
TON-MILES	(Millions of ton-miles)								
Total.....	27,879	100.0	45.5	31.2	14.9	-	8.1	.2	.1
Number of employees—									
Under 20 employees.....	1,021	100.0	1.5	12.3	85.5	-	.4	.1	.2
20 to 99 employees.....	4,519	100.0	39.3	25.9	34.4	-	.3	.1	-
100 to 499 employees.....	16,070	100.0	54.0	35.4	8.0	0.1	2.3	.1	.1
500 employees and over.....	6,269	100.0	35.1	27.2	7.1	-	29.9	.6	.1

TABLE 11. Tons of Shipments—Distance Shipped and Employment Size of Establishment: 1963

Employment size of establishment	Tons (thousands)	Percent distribution by distance of shipment								
		All distances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
Total tons.....	175,597	100.0	51.3	22.1	13.2	5.9	3.0	3.8	0.4	0.3
Number of employees—										
Under 20 employees.....	11,237	100.0	69.4	22.3	6.7	.3	.3	.9	.1	-
20 to 99 employees.....	35,807	100.0	61.9	17.7	11.0	3.5	2.9	2.7	.1	.2
100 to 499 employees.....	99,883	100.0	51.1	22.7	11.4	7.2	2.8	4.0	.5	.3
500 employees and over.....	28,670	100.0	31.5	25.4	25.1	6.6	4.7	5.5	.5	.7

TABLE 12. **Tons of Shipments—Distance Shipped and
Production Area of Origin: 1963**

Production Area of origin	Tons (thousands)	Percent distribution by distance of shipment							
		All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
TONS OF SHIPMENTS									
Total.....	175,597	100.0	51.3	22.1	13.2	8.9	3.8	0.4	0.3
Production Areas ¹ —									
4.....	874	100.0	44.8	18.2	18.2	4.5	10.4	2.5	1.4
5.....	814	100.0	57.3	20.0	11.4	3.9	6.7	.7	—
12.....	2,870	100.0	10.5	27.0	40.9	18.2	2.3	.3	.8
15.....	7,747	100.0	56.4	10.6	7.5	12.1	11.0	2.1	.3
25.....	16,301	100.0	82.0	12.4	2.4	3.0	.2	—	—
Balance of Production Areas.....	30,908	100.0	64.2	19.2	6.2	4.7	4.7	.6	.4
SMSA's outside Production Areas.	41,381	100.0	45.2	21.4	16.9	11.8	4.3	.3	.1
Balance of United States.....	74,702	100.0	43.7	26.9	15.9	9.7	3.0	.3	.5

¹For description of Production Areas, see map in appendix C.

TABLE 13. **Tons and Ton-Miles of Shipments—Area of Destination
and of Origin: 1963**

Area of origin	Tons and ton-miles	Percent distribution by area of destination			
		All areas of destination	Production Areas	SMSA's outside Production Areas	Areas outside SMSA's
TONS OF SHIPMENTS	(Thousands of tons)				
United States, total.....	175,597	100.0	40.9	21.9	37.2
In Production Areas.....	59,514	100.0	61.8	12.9	25.3
In SMSA's outside Production Areas.....	41,381	100.0	16.5	31.1	52.4
Outside of SMSA's.....	74,702	100.0	37.8	23.8	38.4
TON-MILES	(Millions of ton- miles)				
United States, total.....	27,879	100.0	37.4	27.2	35.4
In Production Areas.....	7,856	100.0	43.1	23.2	33.7
In SMSA's outside Production Areas.....	7,226	100.0	23.3	33.8	42.9
Outside of SMSA's.....	12,797	100.0	42.0	25.8	32.2

Shipper Group 14

Primary Iron and Steel Products

Data for Shipper Group 14 are based on a probability sample of 42,478 shipments reported by 362 establishments. The shipper group has been divided into three subgroups which can be closely related to industries classified in the Standard Industrial Classification (SIC). (This is the system of industrial classification developed over a period of years by experts on classification in government and private industry under the guidance of the Bureau of the Budget.) The subgroup and related SIC industries are as follows:

Shipper Subgroup 141.—Steel works and rolling mill products

- SIC 3312.—Blast furnaces (including coke-oven), steel works, and rolling mills
- SIC 3313.—Electrometallurgical products
- SIC 3315.—Steel wire drawing and steel nails and spikes
- SIC 3316.—Cold rolled sheet, strip, and bars
- SIC 3317.—Steel pipe and tubes

Shipper Subgroup 142.—Iron and steel castings

- SIC 3321.—Gray iron foundries
- SIC 3322.—Malleable iron foundries
- SIC 3323.—Steel foundries

Shipper Subgroup 143.—Miscellaneous primary metal products

- SIC 3391.—Iron and steel forgings
- SIC 3392.—Nonferrous forgings
- SIC 3399.—Primary metal industries, n.e.c.

Commodities primary to these industries are classified in the following Transportation Commodity Classifications (TCC):¹

- TCC 331.—Steel works and rolling mill products
- TCC 332.—Iron and steel castings
- TCC 339.—Miscellaneous primary metal products

Data for these commodities are included in the Commodity Series chapter: Commodity Group 33, Primary Metal Products.

Because the data are based on a probability sample, they are subject to sampling variability. The term "sampling variability" refers to the differences that would be expected between results of a sample survey and results that would have been obtained from a complete enumeration of plants and shipping documents. Estimates of sampling variability for Shipper Group 14 on total tons and on key items, are shown below:

Item	Estimated tons based on sample (thousands)	Sampling variability (percent)
Total tons.....	120,521	3.5
SHIPPER SUBGROUPS		
141 Steel works and rolling mill products.....	108,903	4.0
142 Iron and steel castings.....	9,035	8.9
143 Miscellaneous primary metal products.....	2,583	13.0
MEANS OF TRANSPORT		
Rail.....	63,709	4.2
Motor carrier.....	43,905	7.3
Private truck.....	4,892	13.5
Water.....	7,557	12.0
Other.....	458	19.9
ORIGIN OF SHIPMENT (Geographic Division)		
New England.....	1,060	47.4
Middle Atlantic.....	40,694	11.0
East North Central.....	53,051	8.4
West North Central.....	1,471	23.5
South Atlantic, East South Central and West South Central.....	17,825	9.2
Mountain and Pacific.....	6,420	10.0

¹See *Commodity Classification for Transportation Statistics, 1963, Executive Office of the President, Bureau of the Budget.*

TABLE 1. Tons and Ton-Miles of Shipments—Means of Transport and Shipper Subgroup: 1963

Shipper subgroup	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
14 Primary iron and steel products...	120,521	100.0	52.8	36.4	4.1	-	6.3	0.3	0.1
141 Steel works and rolling mill products.....	108,903	100.0	54.5	35.5	2.8	-	6.9	.3	-
142 Iron and steel castings.....	9,035	100.0	39.4	42.4	17.2	0.1	.2	.3	.4
143 Miscellaneous primary metal products.....	2,583	100.0	32.2	53.2	12.4	.1	.4	1.6	.1
TON-MILES	(Millions of ton-miles)								
14 Primary iron and steel products...	34,033	100.0	61.7	24.3	2.3	-	11.2	.4	.1
141 Steel works and rolling mill products.....	30,771	100.0	63.3	22.5	1.6	-	12.3	.3	-
142 Iron and steel castings.....	2,550	100.0	50.8	37.2	11.0	.1	.2	.3	.4
143 Miscellaneous primary metal products.....	712	100.0	35.7	55.7	2.5	.2	3.0	2.8	.1

TABLE 2. Tons of Shipments—Means of Transport and Distance Shipped: 1963

Distance shipped ¹	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
All distances.....	120,521	100.0	52.8	36.4	4.1	-	6.3	0.3	0.1
Under 50 miles.....	22,332	100.0	48.7	43.0	8.3	-	-	-	-
50 to 99 miles.....	15,434	100.0	47.6	47.3	5.1	-	-	-	-
100 to 199 miles.....	25,103	100.0	53.2	41.8	3.5	-	1.4	-	.1
200 to 299 miles.....	21,636	100.0	47.9	39.4	2.9	-	8.9	.8	.1
300 to 399 miles.....	11,827	100.0	44.3	35.0	2.4	-	17.4	.8	.1
400 to 499 miles.....	6,701	100.0	66.9	24.7	1.8	-	6.1	.4	.1
500 to 599 miles.....	5,092	100.0	73.8	22.0	2.3	-	1.8	.1	-
600 to 799 miles.....	4,074	100.0	55.4	14.2	2.9	-	26.8	.7	-
800 to 999 miles.....	3,532	100.0	62.7	8.2	1.9	0.1	27.1	-	-
1,000 to 1,499 miles.....	2,372	100.0	66.0	5.5	1.5	-	27.0	-	-
1,500 miles and over.....	2,418	100.0	94.3	4.0	-	.1	1.3	.3	-

NOTE: Percent distributions by ton-miles are about the same as those for tons because data are grouped in mileage blocks.

¹Distances of shipments to foreign destinations are calculated only to the American port of exit.

TABLE 3. Tons and Ton-Miles of Shipments—Means of Transport and Weight: 1963

Weight	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS		(Thousands of tons)							
Total.....	¹ 65,973	100.0	50.3	41.1	4.6	-	3.4	0.5	0.1
Shipments—									
Under 1,000 pounds.....	281	100.0	2.5	78.8	16.0	0.6	.1	1.6	.4
Under 50 pounds.....	3	100.0	.5	36.8	15.1	4.3	-	42.1	1.2
50 to 99 pounds.....	9	100.0	1.6	68.4	14.6	1.2	-	11.8	2.4
100 to 199 pounds.....	24	100.0	4.4	76.7	16.3	.9	-	1.5	.2
200 to 499 pounds.....	90	100.0	2.9	79.2	15.5	.7	.4	.9	.4
500 to 999 pounds.....	155	100.0	2.0	80.4	16.4	.3	-	.6	.3
1,000 to 9,999 pounds.....	1,949	100.0	2.1	75.1	22.3	.1	-	.3	.1
1,000 to 1,999 pounds.....	280	100.0	1.8	78.7	19.1	-	-	.3	.1
2,000 to 2,999 pounds.....	261	100.0	3.2	73.3	23.1	-	-	.3	.1
3,000 to 4,999 pounds.....	408	100.0	1.9	75.2	22.6	.2	-	.1	-
5,000 to 9,999 pounds.....	1,000	100.0	2.0	74.3	22.8	.2	-	.5	.2
10,000 to 29,999 pounds.....	4,406	100.0	5.1	75.4	18.9	-	-	.4	.2
10,000 to 19,999 pounds.....	1,847	100.0	4.4	73.3	21.4	.1	.1	.6	.1
20,000 to 29,999 pounds.....	2,559	100.0	5.6	76.7	17.1	-	-	.4	.2
30,000 to 59,999 pounds.....	24,265	100.0	9.0	83.0	7.0	-	.4	.4	.2
30,000 to 39,999 pounds.....	10,037	100.0	3.6	84.3	10.8	-	.3	.6	.4
40,000 to 59,999 pounds.....	14,228	100.0	12.8	82.0	4.4	-	.5	.3	-
60,000 to 89,999 pounds.....	5,684	100.0	78.4	17.6	.3	-	2.9	.7	.1
90,000 pounds and over.....	29,388	100.0	89.2	3.4	.1	-	6.8	.5	-
TON-MILES		(Millions of ton- miles)							
Total.....	¹ 19,399	100.0	63.5	28.4	2.6	-	4.9	.5	.1
Shipments—									
Under 1,000 pounds.....	83	100.0	4.1	83.7	6.2	1.5	.3	3.0	1.2
Under 50 pounds.....	1	100.0	.7	36.3	3.3	12.5	-	44.6	2.6
50 to 99 pounds.....	3	100.0	3.6	75.7	4.7	2.4	-	9.3	4.3
100 to 199 pounds.....	8	100.0	6.1	80.9	5.8	2.9	-	2.9	1.4
200 to 499 pounds.....	28	100.0	5.7	82.0	4.7	1.7	.8	2.7	2.4
500 to 999 pounds.....	43	100.0	2.7	87.5	7.6	.6	-	1.5	.1
1,000 to 9,999 pounds.....	460	100.0	4.6	81.6	11.9	.6	-	1.2	.1
1,000 to 1,999 pounds.....	78	100.0	3.1	87.0	8.4	.1	-	1.4	-
2,000 to 2,999 pounds.....	84	100.0	4.5	84.2	10.2	.3	-	.7	.1
3,000 to 4,999 pounds.....	97	100.0	5.2	81.7	11.7	.8	-	.6	-
5,000 to 9,999 pounds.....	201	100.0	5.0	78.1	14.1	.8	.1	1.7	.2
10,000 to 29,999 pounds.....	1,104	100.0	11.7	74.9	12.3	.1	.2	.7	.1
10,000 to 19,999 pounds.....	384	100.0	10.1	70.0	17.8	.2	.6	1.3	-
20,000 to 29,999 pounds.....	720	100.0	12.6	77.2	9.5	.1	.1	.4	.1
30,000 to 59,999 pounds.....	5,578	100.0	22.6	70.2	5.2	-	1.2	.6	.2
30,000 to 39,999 pounds.....	2,133	100.0	6.2	81.8	9.2	-	1.3	1.1	.4
40,000 to 59,999 pounds.....	3,445	100.0	32.8	63.0	2.8	-	1.1	.3	-
60,000 to 89,999 pounds.....	2,085	100.0	87.3	8.6	.1	-	3.4	.6	-
90,000 pounds and over.....	10,089	100.0	90.1	1.4	.1	-	8.1	.3	-

NOTE: Because of rounding, detail may not add to total.

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 4. **Tons of Shipments—Means of Transport,
Distance Shipped, and Weight: 1963**

Distance and weight	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS									
Total.....	165,973	100.0	50.3	41.1	4.6	-	3.4	0.5	0.1
Under 200 miles.....	32,193	100.0	42.3	50.7	6.5	-	.3	.1	.1
Under 1,000 pounds.....	146	100.0	1.4	74.6	22.0	0.1	.1	1.3	.5
1,000 to 9,999 pounds.....	1,119	100.0	1.2	70.1	28.5	-	-	-	.2
10,000 to 29,999 pounds.....	2,640	100.0	2.3	76.0	21.3	-	-	.1	.3
30,000 to 59,999 pounds.....	13,754	100.0	4.0	87.3	8.5	-	-	.1	.1
60,000 pounds and over.....	14,534	100.0	89.5	9.8	.1	-	.6	-	-
200 to 399 miles.....	20,254	100.0	48.2	39.7	3.7	-	7.0	1.3	.1
Under 1,000 pounds.....	75	100.0	2.5	79.2	16.9	.5	-	.9	-
1,000 to 9,999 pounds.....	547	100.0	2.1	79.7	17.8	.2	-	.2	-
10,000 to 29,999 pounds.....	1,180	100.0	4.7	76.8	17.6	-	-	.9	-
30,000 to 59,999 pounds.....	7,244	100.0	8.4	84.2	5.5	-	.6	1.0	.3
60,000 pounds and over.....	11,208	100.0	81.0	4.8	.3	-	12.3	1.6	-
400 to 599 miles.....	6,850	100.0	66.3	30.5	1.7	-	1.2	.3	-
Under 10,000 pounds.....	165	100.0	6.1	83.7	7.5	.3	-	2.4	-
10,000 pounds and over.....	6,685	100.0	67.9	29.1	1.6	-	1.2	.2	-
600 miles and over.....	6,676	100.0	78.2	10.1	1.6	.1	9.8	.2	-
Under 1,000 pounds.....	33	100.0	5.4	86.1	.7	2.0	.6	3.8	1.4
1,000 pounds and over.....	6,643	100.0	78.6	9.7	1.6	.1	9.8	.2	-

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 5. Tons and Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons and ton-miles	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
	TONS OF SHIPMENTS	(Thousands of tons)								
	Total products shipped.....	120,521	100.0	52.8	36.4	4.1	-	6.3	0.3	0.1
	Total primary commodities ¹	101,297	100.0	50.7	39.4	3.7	-	5.8	.3	.1
	Total other commodities ²	19,224	100.0	64.3	21.0	5.7	-	8.8	.2	-
	Selected Primary Commodities ³									
331	Steel works and rolling mill products.....	92,834	100.0	52.7	38.2	2.4	-	6.3	.3	.1
3312	Primary iron and steel products (exc. coke-oven products).....	76,014	100.0	49.6	41.0	2.3	-	6.8	.3	-
3315	Steel wire, nails and spikes...	2,186	100.0	37.2	56.7	5.7	-	.1	.2	.1
332	Iron and steel castings.....	6,434	100.0	25.1	51.6	22.3	-	.2	.3	.5
339	Miscellaneous primary metal products.....	1,986	100.0	37.0	53.7	6.6	-	.4	2.2	.1
3391	Iron and steel forgings.....	1,613	100.0	41.1	52.7	5.8	-	-	.3	.1
	TON-MILES	(Millions of ton-miles)								
	Total products shipped.....	34,033	100.0	61.7	24.3	2.3	-	11.2	.4	.1
	Total primary commodities ¹	28,568	100.0	60.6	25.9	2.0	-	11.0	.4	.1
	Total other commodities ²	5,465	100.0	67.3	16.3	4.0	-	12.2	.2	-
	Selected Primary Commodities ³									
331	Steel works and rolling mill products.....	26,143	100.0	62.4	24.2	1.1	-	12.0	.3	-
3312	Primary iron and steel products (exc. coke-oven products).....	22,044	100.0	61.1	24.1	1.1	-	13.3	.4	-
3315	Steel wire, nails and spikes...	694	100.0	49.9	45.0	4.4	-	.4	.2	.1
332	Iron and steel castings.....	1,848	100.0	44.4	41.3	13.4	-	.3	.2	.4
339	Miscellaneous primary metal products.....	568	100.0	42.9	50.9	2.0	.2	.3	3.6	.1
3391	Iron and steel forgings.....	396	100.0	51.0	45.9	2.1	.1	-	.8	.1

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 331, 332, and 339.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 6. Tons of Shipments—Distance Shipped and
Commodity: 1963

TCC code	Commodity	Tons (thousands)	Percent distribution by distance of shipment								
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
	Total products shipped.	120,521	100.0	31.3	20.8	18.0	9.8	5.6	10.5	2.0	2.0
	Total primary com- modities ¹	101,297	100.0	30.2	21.9	18.5	9.4	5.6	10.5	2.0	1.9
	Total other com- modities ²	19,224	100.0	37.2	15.2	15.3	12.0	5.2	10.8	1.6	2.7
	Selected Primary Commodities ³										
331	Steel works and rolling mill products.....	92,834	100.0	30.3	21.6	18.6	9.5	5.7	10.3	2.1	1.9
3312	Primary iron and steel products (exc. coke-oven products).....	76,014	100.0	32.2	19.4	19.5	9.5	4.2	10.5	2.4	2.3
3315	Steel wire, nails and spikes.....	2,186	100.0	21.2	21.3	17.5	13.0	5.9	18.7	2.1	.3
332	Iron and steel castings....	6,434	100.0	30.3	23.5	14.7	7.6	5.6	15.1	1.5	1.7
339	Miscellaneous primary metal products.....	1,986	100.0	21.2	29.0	24.2	10.8	4.3	5.7	3.3	1.5
3391	Iron and steel forgings..	1,613	100.0	22.3	31.8	26.0	10.1	2.4	4.0	2.9	.5

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 331, 332, and 339.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 7. Tons of Shipments—Means of Transport, Geographic Division of Origin, and Distance Shipped: 1963

Geographic division and distance	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
United States, total.....	120,521	100.0	52.8	36.4	4.1	-	6.3	0.3	0.1
Under 200 miles.....	62,869	100.0	50.3	43.5	5.6	-	.5	-	.1
200 to 399 miles.....	33,463	100.0	46.6	37.8	2.8	-	11.9	.8	.1
400 to 599 miles.....	11,793	100.0	69.8	23.5	2.0	-	4.3	.3	.1
600 to 999 miles.....	7,606	100.0	58.7	11.4	2.4	0.1	27.0	.4	-
1,000 miles and over.....	4,790	100.0	80.4	4.8	.7	-	14.0	.1	-
New England and Middle Atlantic.....	41,754	100.0	60.8	32.6	1.8	-	4.1	.6	.1
Under 200 miles.....	22,042	100.0	60.6	36.8	2.3	-	.2	-	.1
200 to 399 miles.....	12,839	100.0	57.2	31.2	1.2	-	8.5	1.8	.1
400 to 599 miles.....	4,334	100.0	67.8	27.4	.4	-	4.1	.1	.2
600 miles and over.....	2,539	100.0	68.6	13.4	2.3	.1	15.4	.1	.1
East North Central and West									
North Central.....	54,522	100.0	48.1	42.1	5.1	-	4.5	.2	-
Under 200 miles.....	32,793	100.0	44.7	47.4	7.2	-	.6	.1	-
200 to 399 miles.....	13,481	100.0	42.7	44.3	2.5	-	10.2	.2	.1
400 to 599 miles.....	3,744	100.0	65.1	26.6	1.6	-	6.0	.6	.1
600 miles and over.....	4,504	100.0	73.9	10.1	.7	-	14.6	.7	-
South Atlantic, East South Central and West South Central.....	17,825	100.0	45.6	29.3	5.9	-	19.1	.1	-
Under 200 miles.....	6,109	100.0	49.4	41.7	7.5	-	1.4	-	-
200 to 399 miles.....	5,871	100.0	32.2	35.4	6.2	-	26.1	.1	-
400 to 599 miles.....	2,076	100.0	71.9	17.9	5.3	-	4.9	-	-
600 miles and over.....	3,769	100.0	46.3	6.0	3.3	-	44.4	-	-
Mountain and Pacific ¹	6,420	100.0	62.4	32.6	4.8	.1	-	-	.1
Under 200 miles.....	1,925	100.0	27.2	62.4	10.0	-	-	-	.4
200 miles and over.....	4,495	100.0	77.4	19.9	2.6	.1	-	-	-

¹No data were obtained on shipments originating in Alaska and Hawaii.

CENSUS GEOGRAPHIC DIVISIONS

New England—Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut
Middle Atlantic—New York, New Jersey, Pennsylvania
East North Central—Ohio, Indiana, Illinois, Michigan, Wisconsin
West North Central—Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, Kansas
South Atlantic—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida
East South Central—Kentucky, Tennessee, Alabama, Mississippi
West South Central—Arkansas, Louisiana, Oklahoma, Texas
Mountain—Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada
Pacific—Washington, Oregon, California, Alaska, Hawaii

TABLE 8. Tons and Ton-Miles of Shipments—Means of Transport and Geographic Division of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
United States, total.....	120,521	100.0	52.8	36.4	4.1	-	6.3	0.3	0.1
Shipments originating from—									
New England.....	1,060	100.0	34.2	52.4	10.9	-	2.3	.1	.1
Middle Atlantic.....	40,694	100.0	61.6	32.1	1.5	-	4.1	.6	.1
East North Central.....	53,051	100.0	47.9	42.1	5.2	-	4.6	.2	-
West North Central.....	1,471	100.0	54.0	42.3	2.8	-	-	.9	-
South Atlantic.....	17,825	100.0	45.6	29.3	5.9	-	19.1	.1	-
East South Central.....									
West South Central.....									
Mountain.....	6,420	100.0	62.4	32.6	4.8	0.1	-	-	.1
Pacific ¹									
TON-MILES	(Millions of ton-miles)								
United States, total.....	34,033	100.0	61.7	24.3	2.3	-	11.2	.4	.1
Shipments originating from—									
New England.....	338	100.0	30.1	45.7	15.1	.1	8.4	.3	.3
Middle Atlantic.....	10,235	100.0	65.4	25.7	.8	-	7.3	.7	.1
East North Central.....	12,202	100.0	57.6	30.1	2.3	-	9.5	.4	.1
West North Central.....	496	100.0	61.7	36.1	1.3	-	-	.9	-
South Atlantic.....	7,284	100.0	53.6	16.5	4.1	-	25.7	.1	-
East South Central.....									
West South Central.....									
Mountain.....	3,478	100.0	85.5	12.7	1.7	.1	-	-	-
Pacific ¹									

¹No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 9. Tons and Ton-Miles of Shipments—Geographic Division of Destination and of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by geographic division of destination									
		All divisions	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific ¹
TONS OF SHIPMENTS	(Thousands of tons)										
United States, total.....	120,521	100.0	4.6	20.4	47.6	4.9	5.3	4.7	5.9	1.7	4.9
Shipments originating from—											
New England.....	1,060	100.0	27.1	42.2	21.2	.4	7.8	.2	.1	.1	.9
Middle Atlantic.....	40,694	100.0	10.7	39.6	36.8	1.3	6.1	2.5	1.5	.3	1.2
East North Central.....	53,051	100.0	.9	7.4	72.5	7.5	2.0	2.7	5.0	1.0	1.0
West North Central.....	1,471	100.0	.1	2.1	26.7	43.0	.4	3.8	10.8	12.3	.8
South Atlantic.....	17,825	100.0	2.0	22.8	17.6	3.3	14.4	17.5	17.8	1.0	3.6
East South Central.....											
West South Central.....											
Mountain.....	6,420	100.0	.2	.2	2.8	3.9	2.7	.6	8.4	15.1	66.1
Pacific ²											
TON-MILES	(Millions of ton-miles)										
United States, total.....	34,033	100.0	4.1	11.6	28.6	7.5	6.7	5.9	16.0	4.3	15.3
Shipments originating from—											
New England.....	338	100.0	5.7	24.2	46.1	1.5	13.3	.4	.5	.8	7.5
Middle Atlantic.....	10,235	100.0	9.2	19.1	36.8	3.8	6.1	5.2	6.3	2.0	11.5
East North Central.....	12,202	100.0	2.3	8.5	36.9	11.7	3.4	4.6	18.6	5.0	9.0
West North Central.....	496	100.0	.2	5.4	22.7	25.9	.8	4.8	11.9	24.7	3.6
South Atlantic.....	7,284	100.0	2.0	11.5	12.7	5.0	10.8	11.5	24.5	2.9	19.1
East South Central.....											
West South Central.....											
Mountain.....	3,478	100.0	.6	.8	8.0	6.5	11.2	1.9	18.9	9.2	42.9
Pacific ²											

¹Shipments to Alaska and Hawaii from the 48 conterminous States and the District of Columbia are included.²No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 10. Tons and Ton-Miles of Shipments—Means of Transport and Employment Size of Establishment: 1963

Employment size of establishment	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS		(Thousands of tons)							
Total.....	120,521	100.0	52.8	36.4	4.1	-	6.3	0.3	0.1
Number of employees—									
Under 20 employees.....	319	100.0	4.5	68.2	22.7	0.4	3.0	.5	.7
20 to 99 employees.....	1,765	100.0	18.6	45.9	33.5	.1	-	1.9	-
100 to 499 employees.....	19,749	100.0	49.4	41.9	7.0	-	1.4	.1	.2
500 employees and over.....	98,688	100.0	54.2	35.1	2.9	-	7.4	.3	.1
TON-MILES		(Millions of ton-miles)							
Total.....	34,033	100.0	61.7	24.3	2.3	-	11.2	.4	.1
Number of employees—									
Under 20 employees.....	107	100.0	8.7	69.3	2.1	.5	19.1	.2	.1
20 to 99 employees.....	692	100.0	50.5	36.4	11.2	.2	-	1.7	-
100 to 499 employees.....	6,018	100.0	59.1	34.7	3.4	-	2.5	.1	.2
500 employees and over.....	27,216	100.0	62.9	21.6	1.8	-	13.3	.4	-

TABLE 11. Tons of Shipments—Distance Shipped and Employment Size of Establishment: 1963

Employment size of establishment	Tons (thousands)	Percent distribution by distance of shipment								
		All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
Total tons.....	120,521	100.0	31.3	20.8	18.0	9.8	5.6	10.5	2.0	2.0
Number of employees—										
Under 20 employees.....	319	100.0	48.7	8.4	9.2	7.3	5.7	15.2	1.3	4.2
20 to 99 employees.....	1,765	100.0	30.4	13.4	16.8	11.2	8.1	11.0	1.8	7.3
100 to 499 employees.....	19,749	100.0	25.7	22.0	15.4	10.5	7.8	16.1	1.7	.8
500 employees and over.....	98,688	100.0	32.4	20.8	18.5	9.7	5.1	9.4	2.0	2.1

TABLE 12. **Tons of Shipments—Distance Shipped and
Production Area of Origin: 1963**

Production Area of origin	Tons (thousands)	Percent distribution by distance of shipment							
		All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
TONS OF SHIPMENTS									
Total.....	120,521	100.0	31.3	20.8	18.0	15.4	10.5	2.0	2.0
Production Areas ¹ —									
1.....	746	100.0	24.8	38.6	7.9	4.7	22.1	.5	1.4
5.....	4,116	100.0	35.5	12.1	43.7	4.4	2.6	.9	.8
10.....	3,718	100.0	6.9	18.1	50.6	17.3	4.4	1.6	1.1
11.....	11,458	100.0	33.8	26.4	14.0	16.1	5.8	2.5	1.4
12.....	24,436	100.0	27.6	23.2	16.6	18.1	7.4	4.1	3.0
13.....	5,289	100.0	60.9	14.6	16.7	6.1	1.5	—	.2
14.....	2,926	100.0	31.4	19.2	30.7	4.6	12.3	.1	1.7
15.....	24,809	100.0	46.7	17.7	13.6	12.3	8.2	.5	1.0
18.....	1,436	100.0	10.7	14.2	24.2	23.4	23.8	.1	3.6
Balance of Production Areas....	12,783	100.0	32.5	16.5	12.0	15.4	14.4	3.4	5.8
SMSA's outside Production Areas.....	14,552	100.0	14.9	23.3	17.6	17.3	23.5	2.1	1.3
Balance of United States.....	14,252	100.0	21.5	24.6	18.3	21.6	12.2	.9	.9

¹For description of Production Areas, see map in appendix C.

TABLE 13. **Tons and Ton-Miles of Shipments—Area of Destination
and of Origin: 1963**

Area of origin	Tons and ton-miles	Percent distribution by area of destination			
		All areas of destination	Production Areas	SMSA's outside Production Areas	Areas outside SMSA's
TONS OF SHIPMENTS	(Thousands of tons)				
United States, total.....	120,521	100.0	60.3	17.0	22.7
In Production Areas.....	91,717	100.0	64.0	15.1	20.9
In SMSA's outside Production Areas.....	14,552	100.0	39.1	28.8	32.1
Outside of SMSA's.....	14,252	100.0	58.0	17.3	24.7
TON-MILES	(Millions of ton- miles)				
United States, total.....	34,033	100.0	52.2	22.1	25.7
In Production Areas.....	24,894	100.0	53.6	20.6	25.8
In SMSA's outside Production Areas.....	5,127	100.0	46.7	26.5	26.8
Outside of SMSA's.....	4,012	100.0	50.2	25.6	24.2

Shipper Group 15

Primary Nonferrous Metal Products

Data for Shipper Group 15 are based on a probability sample of 47,150 shipments reported by 405 establishments. The shipper group has been divided into three subgroups which can be closely related to industries classified in the Standard Industrial Classification (SIC). (This is the system of industrial classification developed over a period of years by experts on classification in government and private industry under the guidance of the Bureau of the Budget.) The subgroup and related SIC industries are as follows:

Shipper Subgroup 151.—Nonferrous metal primary smelter products

SIC 3331.—Primary smelting and refining of copper

SIC 3332.—Primary smelting and refining of lead

SIC 3333.—Primary smelting and refining of zinc

SIC 3334.—Primary production of aluminum

SIC 3339.—Primary smelting and refining of nonferrous metals, n.e.c.

SIC 3341.—Secondary smelting, refining, and alloying of nonferrous metals and alloys

Shipper Subgroup 152.—Nonferrous metal basic shapes

SIC 3351.—Rolling, drawing, and extruding of copper

SIC 3352.—Rolling, drawing, and extruding of aluminum

SIC 3356.—Rolling, drawing, and extruding of nonferrous metals, except copper and aluminum

SIC 3357.—Drawing and insulating of nonferrous wire

Shipper Subgroup 153.—Nonferrous and nonferrous base alloy castings

SIC 3361.—Aluminum castings

SIC 3362.—Brass, bronze, copper, copper base alloy castings

SIC 3369.—Nonferrous castings, n.e.c.

Commodities primary to these industries are classified in the following Transportation Commodity Classifications (TCC):¹

TCC 333.—Nonferrous metals primary smelter products (slab, ingot, pig, etc., and residues)

TCC 335.—Nonferrous metal basic shapes

TCC 336.—Nonferrous and nonferrous base alloy castings

Data for these commodities are included in the Commodity Series chapter: Commodity Group 33, Primary Metal Products.

Because the data are based on a probability sample, they are subject to sampling variability. The term "sampling variability" refers to the differences that would be expected between results of a sample survey and results that would have been obtained from a complete enumeration of plants and shipping documents. Estimates of sampling variability for Shipper Group 15 on total tons and on key items, are shown below:

Item	Estimated tons based on sample (thousands)	Sampling variability (percent)
Total tons.....	18,862	5.2
SHIPPER SUBGROUPS		
151 Nonferrous metals primary smelter products.....	9,784	7.2
152 Nonferrous metal basic shapes.	8,042	8.5
153 Nonferrous and nonferrous base alloy castings.....	1,036	14.3
MEANS OF TRANSPORT		
Rail.....	9,689	8.0
Motor carrier.....	6,403	5.1
Private truck.....	2,075	12.0
Other.....	695	17.4
ORIGIN OF SHIPMENT (Geographic Division)		
New England.....	1,344	11.4
Middle Atlantic.....	4,258	9.0
East North Central.....	4,126	9.9
West North Central.....	1,103	52.4
South Atlantic.....	1,023	10.7
East South Central.....	852	12.3
West South Central.....	2,641	21.3
Mountain.....	2,501	23.8
Pacific.....	1,014	13.6

¹ See *Commodity Classification for Transportation Statistics, 1963, Executive Office of the President, Bureau of the Budget.*

TABLE 1. **Tons and Ton-Miles of Shipments—Means of Transport and Shipper Subgroup: 1963**

Shipper subgroup	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
15 Primary nonferrous metal products..	18,862	100.0	51.5	33.9	11.0	-	2.9	0.3	0.4
151 Nonferrous metals primary smelter products.....	9,784	100.0	73.1	15.2	6.1	-	5.1	.1	.4
152 Nonferrous metal basic shapes..	8,042	100.0	30.0	52.2	16.1	0.1	.6	.6	.4
153 Nonferrous and nonferrous base alloy castings.....	1,036	100.0	11.9	69.6	17.1	.2	.4	.6	.2
TON-MILES	(Millions of ton-miles)								
15 Primary nonferrous metal products..	11,033	100.0	73.2	21.0	3.8	.1	1.3	.5	.1
151 Nonferrous metals primary smelter products.....	6,269	100.0	91.6	5.6	1.7	-	1.1	-	-
152 Nonferrous metal basic shapes..	4,409	100.0	51.8	38.7	6.4	.2	1.7	1.1	.1
153 Nonferrous and nonferrous base alloy castings.....	355	100.0	14.9	74.5	8.6	.7	.1	1.0	.2

TABLE 2. **Tons of Shipments—Means of Transport and Distance Shipped: 1963**

Distance shipped ¹	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
All distances.....	18,862	100.0	51.5	33.9	11.0	-	2.9	0.3	0.4
Under 50 miles.....	2,016	100.0	6.8	39.9	30.3	-	20.7	1.0	1.3
50 to 99 miles.....	1,618	100.0	28.4	44.9	22.9	-	2.4	.1	1.3
100 to 199 miles.....	2,932	100.0	46.2	40.1	12.9	-	.2	.1	.5
200 to 299 miles.....	1,859	100.0	35.6	52.2	11.7	-	-	.2	.3
300 to 399 miles.....	1,394	100.0	42.8	43.2	13.7	-	-	.2	.1
400 to 499 miles.....	1,393	100.0	54.8	37.3	7.7	0.1	-	.1	-
500 to 599 miles.....	848	100.0	44.8	47.7	7.1	.1	-	.2	.1
600 to 799 miles.....	1,403	100.0	55.4	39.7	4.3	.1	-	.5	-
800 to 999 miles.....	1,508	100.0	75.0	21.0	3.1	-	.5	.4	-
1,000 to 1,199 miles.....	914	100.0	85.3	12.2	1.6	.1	.4	.3	.1
1,200 to 1,499 miles.....	1,032	100.0	85.2	7.7	.7	-	6.1	.2	.1
1,500 to 1,999 miles.....	1,403	100.0	93.5	5.6	.5	.1	-	.3	-
2,000 miles or more.....	542	100.0	84.0	11.0	.5	.5	2.2	1.8	-

NOTE: Percent distributions by ton-miles are about the same as those for tons because data are grouped in mileage blocks.

¹Distances of shipments to foreign destinations are calculated only to the American port of exit.

TABLE 3. Tons and Ton-Miles of Shipments—Means of Transport and Weight: 1963

Weight	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS		(Thousands of tons)							
Total.....	¹ 10,257	100.0	40.5	42.0	13.5	-	3.4	0.4	0.2
Shipments—									
Under 1,000 pounds.....	302	100.0	.9	79.2	15.3	1.3	.2	2.9	.2
Under 50 pounds.....	5	100.0	1.5	44.7	12.0	6.4	-	35.3	.1
50 to 99 pounds.....	10	100.0	1.3	70.1	12.8	3.3	.5	11.9	.1
100 to 199 pounds.....	28	100.0	.9	80.4	12.6	1.7	.2	4.1	.1
200 to 499 pounds.....	100	100.0	1.0	82.3	13.1	1.5	.2	1.7	.2
500 to 999 pounds.....	159	100.0	.9	78.8	17.4	.7	.2	1.8	.2
1,000 to 9,999 pounds.....	1,187	100.0	1.1	75.2	21.0	.1	.5	1.9	.2
1,000 to 1,999 pounds.....	247	100.0	1.3	78.1	18.3	.3	.4	1.5	.1
2,000 to 2,999 pounds.....	210	100.0	1.3	76.0	20.8	.1	.1	1.5	.2
3,000 to 4,999 pounds.....	269	100.0	.8	72.8	22.6	-	.1	3.0	.7
5,000 to 9,999 pounds.....	461	100.0	1.1	74.6	21.6	-	.9	1.7	.1
10,000 to 29,999 pounds.....	1,580	100.0	4.8	69.5	24.5	-	.6	.5	.1
10,000 to 19,999 pounds.....	629	100.0	1.8	65.4	32.1	-	.1	.4	.2
20,000 to 29,999 pounds.....	951	100.0	6.8	72.4	19.5	-	.8	.5	-
30,000 to 59,999 pounds.....	2,985	100.0	18.9	57.6	22.1	-	1.1	.1	.2
30,000 to 39,999 pounds.....	1,763	100.0	8.5	63.1	27.0	-	1.3	-	.1
40,000 to 59,999 pounds.....	1,222	100.0	33.8	49.7	15.1	-	.9	.1	.4
60,000 pounds and over.....	4,203	100.0	83.2	8.4	1.0	-	7.1	-	.3
TON-MILES		(Millions of ton- miles)							
Total.....	¹ 5,527	100.0	53.2	28.9	5.4	.1	1.6	.7	.1
Shipments—									
Under 1,000 pounds.....	132	100.0	3.4	83.4	3.6	3.7	.2	5.6	.1
Under 50 pounds.....	3	100.0	2.6	43.3	2.1	12.3	-	39.6	.1
50 to 99 pounds.....	5	100.0	4.1	70.6	1.6	7.8	.1	15.7	.1
100 to 199 pounds.....	13	100.0	2.9	82.2	4.4	4.4	-	6.1	-
200 to 499 pounds.....	46	100.0	3.6	84.3	3.4	4.1	.3	4.2	.1
500 to 999 pounds.....	65	100.0	3.4	85.9	3.7	2.5	.2	4.1	.2
1,000 to 9,999 pounds.....	417	100.0	3.0	83.0	8.2	.3	.5	4.8	.2
1,000 to 1,999 pounds.....	91	100.0	3.6	84.4	4.7	1.2	.4	5.5	.2
2,000 to 2,999 pounds.....	69	100.0	2.6	85.6	7.2	.4	.2	3.9	.1
3,000 to 4,999 pounds.....	96	100.0	2.4	76.3	10.9	-	.3	9.6	.5
5,000 to 9,999 pounds.....	161	100.0	3.1	85.0	8.9	-	.9	2.0	.1
10,000 to 29,999 pounds.....	571	100.0	9.3	72.6	14.5	.1	2.1	1.4	-
10,000 to 19,999 pounds.....	214	100.0	3.6	72.6	21.6	.1	.3	1.8	-
20,000 to 29,999 pounds.....	357	100.0	12.7	72.7	10.2	-	3.2	1.2	-
30,000 to 59,999 pounds.....	1,384	100.0	40.1	43.1	12.6	-	4.0	.2	-
30,000 to 39,999 pounds.....	705	100.0	19.6	57.2	17.7	-	5.2	.3	-
50,000 to 59,999 pounds.....	679	100.0	61.3	28.4	7.3	-	2.8	.1	.1
60,000 pounds and over.....	3,023	100.0	94.7	4.4	.1	-	.7	-	.1

NOTE: Because of rounding, detail may not add to total.

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 4. **Tons of Shipments—Means of Transport,
Distance Shipped, and Weight: 1963**

Distance and weight	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS									
Total.....	¹ 10,257	100.0	40.5	42.0	13.5	-	3.4	0.4	0.2
Under 200 miles.....	3,350	100.0	13.1	51.8	25.5	-	8.8	.3	.5
Under 1,000 pounds.....	144	100.0	.1	69.0	28.8	0.2	.3	1.4	.2
1,000 to 9,999 pounds.....	617	100.0	.4	63.6	33.8	-	.7	1.4	.1
10,000 pounds and over.....	2,589	100.0	16.9	47.9	23.4	-	11.2	-	.6
200 to 399 miles.....	2,160	100.0	33.2	52.3	14.1	-	-	.2	.2
Under 1,000 pounds.....	53	100.0	.3	90.8	4.9	.6	-	3.4	-
1,000 to 9,999 pounds.....	257	100.0	.4	87.1	11.2	-	.2	.6	.5
10,000 pounds and over.....	1,850	100.0	38.7	46.3	14.8	-	-	-	.2
400 to 599 miles.....	1,401	100.0	47.6	43.6	8.6	.1	-	.1	-
Under 1,000 pounds.....	31	100.0	.6	93.1	1.8	2.1	-	2.4	-
1,000 pounds and over.....	1,370	100.0	48.7	42.5	8.7	-	-	.1	-
600 to 999 miles.....	1,823	100.0	61.7	32.9	4.4	-	.4	.6	-
Under 1,000 pounds.....	38	100.0	1.6	90.2	1.6	1.9	.3	4.2	.2
1,000 to 29,999 pounds.....	341	100.0	12.4	73.1	12.3	-	-	2.2	-
30,000 pounds and over.....	1,444	100.0	74.9	21.9	2.6	-	.5	.1	-
1,000 miles and over.....	1,523	100.0	78.9	15.3	1.6	.2	3.0	.9	.1
Under 1,000 pounds.....	36	100.0	5.0	79.8	2.6	5.2	.2	7.1	.1
1,000 pounds and over.....	1,487	100.0	80.6	13.8	1.6	.1	3.1	.8	-

NOTE: Because of rounding, detail may not add to total.

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 5. Tons and Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons and ton-miles	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
	TONS OF SHIPMENTS	(Thousands of tons)								
	Total products shipped.....	18,862	100.0	51.5	33.9	11.0	-	2.9	0.3	0.4
	Total primary commodities ¹	16,066	100.0	53.7	32.7	11.3	-	1.6	.3	.4
	Total other commodities ² ..	2,796	100.0	38.2	40.9	9.3	0.1	10.5	.7	.3
	Selected Primary Commodities ³									
333	Nonferrous metals primary smelter products (slab, ingot, pig, etc., and residues).....	8,740	100.0	75.4	14.4	7.4	-	2.4	-	.4
3331	Primary copper smelter products	3,171	100.0	80.5	8.8	5.6	-	5.1	-	-
3333	Primary zinc and zinc base alloys smelter products.....	1,756	100.0	85.8	10.9	3.1	-	.2	-	-
3334	Primary aluminum smelter products.....	2,255	100.0	63.4	24.6	10.4	-	1.6	-	-
335	Nonferrous metal basic shapes....	6,720	100.0	29.2	52.9	16.0	.1	.7	.6	.5
3351	Copper, brass, bronze and other copper base alloy basic shapes	1,814	100.0	21.3	54.4	22.5	-	.1	.4	1.3
3352	Aluminum and aluminum base alloy basic shapes (exc. aluminum foil).....	2,069	100.0	30.5	54.7	14.3	-	-	.4	.1
3356	Misc. nonferrous metal basic shapes (plate, sheet, strip, rods, bars, pipe, and tubing).	371	100.0	41.2	43.1	15.3	.1	-	.2	.1
3357	Nonferrous wire (including insulated wire).....	2,352	100.0	28.9	54.3	13.3	.2	2.1	1.0	.2
336	Nonferrous and nonferrous base alloy castings.....	604	100.0	11.3	72.6	15.1	.2	-	.6	.2
3361	Aluminum and aluminum base alloy castings.....	396	100.0	15.8	69.8	13.7	.1	-	.4	.2
3362	Brass, bronze, copper, and copper base alloy castings....	58	100.0	6.0	74.8	15.7	.1	.2	3.1	.1
3369	Misc. nonferrous metal castings.....	132	100.0	1.4	80.0	18.0	.3	-	.2	.1
	TON-MILES	(Millions of ton-miles)								
	Total.....	11,033	100.0	73.2	21.0	3.8	.1	1.3	.5	.1
	Total primary commodities ¹	9,827	100.0	75.4	18.9	3.7	.1	1.4	.4	.1
	Total other commodities ² ..	1,206	100.0	54.8	38.2	4.7	.2	.7	1.3	.1
	Selected Primary Commodities ³									
333	Nonferrous metals primary smelter products (slab, ingot, pig, etc., and residues).....	5,783	100.0	91.9	5.1	2.0	-	1.0	-	-
3331	Primary copper smelter products	2,232	100.0	96.9	2.0	.9	-	.2	-	-
3333	Primary zinc and zinc base alloys smelter products.....	992	100.0	93.7	4.7	1.3	-	.3	-	-
3334	Primary aluminum smelter products.....	1,579	100.0	83.2	10.1	4.0	-	2.7	-	-

See footnotes at end of table.

TABLE 5. Tons and Ton-Miles of Shipments—Means of Transport and Commodity: 1963—Continued

TCC code	Commodity	Tons and ton-miles	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
		(Millions of ton-miles)								
335	Nonferrous metal basic shapes....	3,891	100.0	53.4	37.3	6.1	0.2	2.0	0.9	0.1
3351	Copper, brass, bronze and other copper base alloy basic shapes	829	100.0	53.4	35.2	10.2	.1	-	.6	.5
3352	Aluminum and aluminum base alloy basic shapes (exc. aluminum foil).....	1,263	100.0	52.0	41.5	5.7	-	-	.8	-
3356	Misc. nonferrous metal basic shapes (plate, sheet, strip, rods, bars, pipe, and tubing).	129	100.0	54.1	38.1	7.2	.3	-	.3	-
3357	Nonferrous wire (including insulated wire).....	1,529	100.0	50.5	38.3	4.7	.3	5.0	1.2	-
336	Nonferrous and nonferrous base alloy castings.....	152	100.0	16.4	75.1	6.3	.7	.1	1.1	.3
3361	Aluminum and aluminum base alloy castings.....	86	100.0	22.7	68.2	7.4	.6	-	.7	.4
3362	Brass, bronze, copper, and copper base alloy castings....	21	100.0	9.9	81.2	3.5	.3	.5	4.6	-
3369	Misc. nonferrous metal castings	42	100.0	7.9	85.2	5.7	.9	-	.3	-

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 333, 335, and 336.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 6. Tons of Shipments—Distance Shipped and
Commodity: 1963

TCC code	Commodity	Tons (thousands)	Percent distribution by distance of shipment								
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
	Total products shipped	18,862	100.0	19.3	15.5	9.9	7.4	7.4	19.9	10.3	10.3
	Total primary com- modities ¹	16,066	100.0	17.4	15.0	10.0	7.3	7.3	20.9	11.5	10.6
	Total other com- modities ²	2,796	100.0	30.2	18.6	8.7	7.7	8.1	14.7	3.2	8.8
	Selected Primary Commodities ³										
333	Nonferrous metals primary smelter products (slab, ingot, pig, etc., and residues).....	8,740	100.0	17.5	14.8	8.1	6.0	6.7	21.8	12.2	12.9
3331	Primary copper smelter products.....	3,171	100.0	16.5	28.0	5.8	3.8	8.2	5.4	10.3	22.0
3333	Primary zinc and zinc base alloys smelter products.....	1,756	100.0	22.1	7.8	6.6	11.1	7.8	25.3	13.6	5.7
3334	Primary aluminum smelter products.....	2,255	100.0	14.1	8.8	12.0	5.6	4.3	35.1	6.8	13.3
335	Nonferrous metal basic shapes.....	6,720	100.0	16.1	14.8	11.3	9.0	8.0	20.9	11.5	8.4
3351	Copper, brass, bronze, and other copper base alloy basic shapes....	1,814	100.0	24.3	20.0	10.5	9.2	4.2	14.7	13.8	3.3
3352	Aluminum and aluminum base alloy basic shapes (exc. aluminum foil)...	2,069	100.0	8.7	13.5	12.6	10.3	12.3	24.1	6.9	11.6
3356	Misc. nonferrous metal basic shapes (plate, sheet, strip, rods, bars, pipe, and tubing).	371	100.0	14.2	12.3	31.3	18.5	9.6	10.4	.6	3.1
3357	Nonferrous wire (in- cluding insulated wire)	2,352	100.0	17.4	13.0	8.1	6.6	7.4	24.6	12.6	10.3
336	Nonferrous and nonferrous base alloy castings.....	604	100.0	29.1	20.8	24.8	7.6	7.3	8.2	1.5	.7
3361	Aluminum and aluminum base alloy castings....	396	100.0	26.0	22.3	32.6	6.9	7.5	4.0	.4	.3
3362	Brass, bronze, copper and copper base alloy castings.....	58	100.0	37.0	12.9	6.3	8.4	7.8	17.2	9.0	1.4
3369	Misc. nonferrous metal castings.....	132	100.0	32.6	17.2	12.1	10.2	7.2	17.5	1.7	1.5

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 333, 335, and 336.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 7. Tons of Shipments—Means of Transport, Geographic Division of Origin, and Distance Shipped: 1963

Geographic division and distance	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
United States, total.....	18,862	100.0	51.5	33.9	11.0	-	2.9	0.3	0.4
Under 200 miles.....	6,566	100.0	29.7	41.1	20.7	-	7.1	.4	1.0
200 to 399 miles.....	3,253	100.0	38.7	48.4	12.5	-	-	.2	.2
400 to 599 miles.....	2,241	100.0	51.0	41.3	7.5	0.1	-	.1	-
600 to 999 miles.....	2,911	100.0	65.6	30.0	3.7	.1	.2	.4	-
1,000 miles and over.....	3,891	100.0	88.1	8.4	.8	.1	2.0	.5	.1
New England and Middle Atlantic.....	5,602	100.0	21.5	47.1	20.4	.1	9.0	.7	1.2
Under 200 miles.....	2,980	100.0	9.5	45.3	27.2	-	15.2	.7	2.1
200 to 399 miles.....	855	100.0	23.7	51.1	24.1	.1	.1	.4	.5
400 to 599 miles.....	569	100.0	31.0	52.8	15.8	.1	-	.3	-
600 to 999 miles.....	645	100.0	32.3	62.6	3.6	.1	.6	.8	-
1,000 miles and over.....	553	100.0	60.6	26.3	2.2	.2	8.8	1.9	-
East North Central and West									
North Central.....	5,229	100.0	41.5	47.0	11.0	.1	-	.3	.1
Under 200 miles.....	1,596	100.0	11.3	64.8	23.7	-	-	.1	.1
200 to 399 miles.....	1,392	100.0	35.8	56.3	7.7	-	-	.2	-
400 to 599 miles.....	961	100.0	58.5	37.7	3.7	.1	-	-	-
600 to 999 miles.....	635	100.0	57.3	34.6	7.1	.1	-	.9	-
1,000 miles and over.....	645	100.0	87.8	9.4	1.7	.2	-	.7	.2
South Atlantic, East South Central and West South Central.....	4,516	100.0	70.4	22.6	6.0	-	.9	.1	-
Under 200 miles.....	792	100.0	51.8	31.3	16.1	-	.7	.1	-
200 to 399 miles.....	840	100.0	55.5	35.4	8.9	-	-	.1	.1
400 to 599 miles.....	646	100.0	57.4	36.3	6.2	-	-	.1	-
600 miles and over.....	2,238	100.0	86.3	10.7	1.3	-	1.5	.2	-
Mountain and Pacific ¹	3,515	100.0	89.1	8.1	2.4	.1	.2	.1	-
Under 200 miles.....	1,198	100.0	89.9	6.0	3.7	-	.4	-	-
200 to 999 miles.....	582	100.0	73.1	21.1	5.8	-	-	-	-
1,000 miles and over.....	1,735	100.0	94.2	5.2	.4	.1	-	.1	-

¹No data were obtained on shipments originating in Alaska and Hawaii.

CENSUS GEOGRAPHIC DIVISIONS

New England—Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut

Middle Atlantic—New York, New Jersey, Pennsylvania

East North Central—Ohio, Indiana, Illinois, Michigan, Wisconsin

West North Central—Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, Kansas

South Atlantic—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida

East South Central—Kentucky, Tennessee, Alabama, Mississippi

West South Central—Arkansas, Louisiana, Oklahoma, Texas

Mountain—Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada

Pacific—Washington, Oregon, California, Alaska, Hawaii

TABLE 8. **Tons and Ton-Miles of Shipments—Means of Transport and Geographic Division of Origin: 1963**

Geographic division of origin	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS		(Thousands of tons)							
United States, total.....	18,862	100.0	51.5	33.9	11.0	-	2.9	0.3	0.4
Shipments originating from—									
New England.....	1,344	100.0	22.2	54.5	19.6	0.1	1.5	1.0	1.1
Middle Atlantic.....	4,258	100.0	21.3	44.8	20.6	-	11.4	.7	1.2
East North Central.....	4,126	100.0	31.4	54.3	13.9	.1	-	.2	.1
West North Central.....	1,103	100.0	79.2	19.9	.4	-	-	.5	-
South Atlantic.....	1,023	100.0	61.8	33.5	4.2	-	-	.4	.1
East South Central.....	852	100.0	41.6	45.8	12.6	-	-	-	-
West South Central.....	2,641	100.0	83.1	10.8	4.6	-	1.5	-	-
Mountain.....	2,501	100.0	97.9	2.1	-	-	-	-	-
Pacific ¹	1,014	100.0	67.9	22.9	8.3	.2	.5	.2	-
TON-MILES		(Millions of ton-miles)							
United States, total.....	11,033	100.0	73.2	21.0	3.8	.1	1.3	.5	.1
Shipments originating from—									
New England.....	733	100.0	47.0	42.9	4.3	.2	3.8	1.7	.1
Middle Atlantic.....	1,405	100.0	40.8	41.5	11.2	.1	4.9	1.2	.3
East North Central.....	1,608	100.0	50.1	41.4	7.6	.2	-	.6	.1
West North Central.....	791	100.0	86.5	12.8	.2	-	-	.5	-
South Atlantic.....	442	100.0	66.2	28.8	4.0	-	-	.9	.1
East South Central.....	478	100.0	56.9	38.1	5.0	-	-	-	-
West South Central.....	2,240	100.0	90.9	5.5	1.6	-	2.0	-	-
Mountain.....	2,263	100.0	98.6	1.4	-	-	-	-	-
Pacific ¹	1,073	100.0	78.4	18.0	2.8	.3	-	.5	-

¹No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 9. Tons and Ton-Miles of Shipments—Geographic Division of Destination and of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by geographic division of destination									
		All divisions	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific ¹
TONS OF SHIPMENTS	(Thousands of tons)										
United States, total.....	18,862	100.0	6.6	20.1	31.5	7.3	9.8	4.2	9.5	3.3	7.7
Shipments originating from—											
New England.....	1,344	100.0	30.6	24.4	14.4	11.5	6.9	4.5	2.8	1.2	3.7
Middle Atlantic.....	4,258	100.0	10.8	41.7	20.5	2.3	16.8	2.4	2.1	.8	2.6
East North Central.....	4,126	100.0	2.8	10.7	56.0	10.0	6.1	3.6	5.2	1.3	4.3
West North Central.....	1,103	100.0	8.4	25.6	30.7	12.3	9.5	1.6	6.4	.6	4.9
South Atlantic.....	1,023	100.0	8.1	31.1	27.3	7.0	18.3	3.5	1.9	.1	2.7
East South Central.....	852	100.0	3.2	16.8	30.3	5.4	14.6	14.2	6.8	.8	7.9
West South Central.....	2,641	100.0	.4	10.1	29.2	13.1	3.3	9.7	25.2	1.5	7.5
Mountain.....	2,501	100.0	1.4	8.2	27.3	2.2	10.2	1.0	23.8	16.7	9.2
Pacific ²	1,014	100.0	1.0	3.6	22.2	6.1	3.2	1.4	5.2	5.0	52.3
TON-MILES	(Millions of ton-miles)										
United States, total.....	11,033	100.0	4.1	16.6	29.7	8.8	11.0	4.1	7.5	2.7	15.5
Shipments originating from—											
New England.....	733	100.0	3.4	8.9	17.7	26.6	7.6	6.6	7.5	4.2	17.5
Middle Atlantic.....	1,405	100.0	5.5	13.5	25.6	6.4	12.7	5.0	7.9	4.3	19.1
East North Central.....	1,608	100.0	5.0	11.7	27.4	9.2	7.8	3.4	10.2	4.3	21.0
West North Central.....	791	100.0	13.6	35.3	15.2	4.4	11.5	1.2	6.8	1.0	11.0
South Atlantic.....	442	100.0	5.9	17.8	21.3	14.7	17.2	4.5	4.2	.5	13.9
East South Central.....	478	100.0	4.8	17.5	20.1	4.9	12.5	3.8	7.4	1.9	27.1
West South Central.....	2,240	100.0	.7	20.1	32.7	11.5	3.9	7.6	8.1	1.3	14.1
Mountain.....	2,263	100.0	3.2	18.2	40.4	2.7	20.5	1.4	5.6	2.3	5.7
Pacific ²	1,073	100.0	2.2	7.8	37.7	8.6	6.6	2.6	7.7	3.1	23.7

¹Shipments to Alaska and Hawaii from the 48 conterminous States and the District of Columbia are included.

²No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 10. Tons and Ton-Miles of Shipments—Means of Transport and Employment Size of Establishment: 1963

Employment size of establishment	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
Total.....	18,862	100.0	51.5	33.9	11.0	-	2.9	0.3	0.4
Number of employees—									
Under 20 employees.....	120	100.0	-	82.7	6.6	-	.4	10.3	
20 to 99 employees.....	1,384	100.0	11.1	45.7	41.3	0.2	.7	.8	.2
100 to 499 employees.....	7,636	100.0	52.9	32.0	14.0	-	.3	.3	.5
500 employees and over.....	9,722	100.0	56.5	33.1	4.4	.1	5.3	.2	.4
TON-MILES	(Millions of ton-miles)								
Total.....	11,033	100.0	73.2	21.0	3.8	.1	1.3	.5	.1
Number of employees—									
Under 20 employees.....	35	100.0	-	96.0	.8	-	.2	3.0	-
20 to 99 employees.....	427	100.0	21.9	54.5	19.4	.8	1.8	1.6	-
100 to 499 employees.....	4,543	100.0	73.6	19.5	5.4	.1	.9	.4	.1
500 employees and over.....	6,028	100.0	77.0	19.4	1.5	.1	1.5	.4	.1

TABLE 11. Tons of Shipments—Distance Shipped and Employment Size of Establishment: 1963

Employment size of establishment	Tons (thousands)	Percent distribution by distance of shipment								
		All distances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
Total tons.....	18,862	100.0	19.3	15.5	9.9	7.4	7.4	19.9	10.3	10.3
Number of employees—										
Under 20 employees.....	120	100.0	44.8	14.8	6.1	7.4	6.2	14.6	4.3	1.8
20 to 99 employees.....	1,384	100.0	40.9	16.9	10.1	5.3	4.8	17.2	2.0	2.8
100 to 499 employees.....	7,636	100.0	14.5	16.3	9.5	8.5	9.7	21.0	11.2	9.3
500 employees and over.....	9,722	100.0	19.7	14.8	10.1	6.8	5.9	19.6	10.8	12.3

TABLE 12. **Tons of Shipments—Distance Shipped and
Production Area of Origin: 1963**

Production Area of origin	Tons (thousands)	Percent distribution by distance of shipment							
		All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300- to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
TONS OF SHIPMENTS									
Total.....	18,862	100.0	19.3	15.5	9.9	14.8	19.9	10.3	10.3
Production Areas ¹ —									
1.....	498	100.0	21.7	13.3	4.3	9.7	13.6	23.8	13.6
2.....	609	100.0	39.5	14.8	5.6	7.5	23.1	5.7	3.8
3.....	443	100.0	40.7	11.6	3.8	5.7	28.8	4.7	4.7
4.....	1,595	100.0	50.7	16.7	7.5	8.7	9.8	2.5	4.1
5.....	215	100.0	52.4	8.5	6.4	10.2	16.3	4.0	2.2
9.....	240	100.0	7.2	26.0	12.4	12.8	21.8	4.8	15.0
11.....	643	100.0	36.8	23.4	14.6	16.7	6.3	1.3	.9
13.....	192	100.0	33.5	13.9	12.3	20.0	14.4	2.6	3.3
15.....	561	100.0	26.7	16.2	22.2	15.0	11.4	.2	8.3
16.....	195	100.0	52.6	7.1	16.0	13.0	11.1	-	.2
18.....	976	100.0	7.7	7.2	25.9	29.4	20.9	5.9	3.0
25.....	131	100.0	19.1	3.3	2.3	14.3	11.8	16.6	32.6
Balance of Production Areas....	1,892	100.0	29.9	17.0	13.8	17.9	15.4	4.1	1.9
SMSA's Outside Production Areas	4,541	100.0	8.4	7.5	6.1	12.1	25.5	25.6	14.8
Balance of United States.....	6,131	100.0	9.2	22.1	9.0	16.7	22.3	6.2	14.5

¹For description of Production Areas, see map in appendix C.

TABLE 13. **Tons and Ton-Miles of Shipments—Area of Destination
and of Origin: 1963**

Area of origin	Tons and ton-miles	Percent distribution by area of destination			
		All areas of destination	Production Areas	SMSA's outside Production Areas	Areas outside SMSA's
TONS OF SHIPMENTS	(Thousands of tons)				
United States, total.....	18,862	100.0	56.2	20.5	23.3
In Production Areas.....	8,190	100.0	66.3	13.1	20.6
In SMSA's outside Production Areas.....	4,541	100.0	48.7	21.9	29.4
Outside of SMSA's.....	6,131	100.0	48.3	29.4	22.3
TON-MILES	(Millions of ton- miles)				
United States, total.....	11,033	100.0	56.5	20.8	22.7
In Production Areas.....	3,199	100.0	57.3	17.8	24.9
In SMSA's outside Production Areas.....	3,860	100.0	55.5	21.9	22.6
Outside of SMSA's.....	3,974	100.0	56.6	22.2	21.2

Shipper Group 16

Fabricated Metal Products, Except Metal Cans and Miscellaneous Fabricated Metal Products

Data for Shipper Group 16 are based on a probability sample of 37,128 shipments reported by 330 establishments. The shipper group has been divided into three subgroups which can be closely related to industries classified in the Standard Industrial Classification (SIC). (This is the system of industrial classification developed over a period of years by experts on classification in government and private industry under the guidance of the Bureau of the Budget.) The subgroup and related SIC industries are as follows:

Shipper Subgroup 161.—Cutlery, tools, and hardware

SIC 3421.—Cutlery

SIC 3423.—Hand and edge tools, except machine tools and hand saws

SIC 3425.—Hand saws and saw blades

SIC 3429.—Hardware, n.e.c.

Shipper Subgroup 162.—Plumbing fixtures and heating apparatus, except electric

SIC 3431.—Enameled iron and metal sanitary ware

SIC 3432.—Plumbing fixture fittings and trim (brass goods)

SIC 3433.—Heating equipment, except electric

Shipper Subgroup 163.—Fabricated structural metal products

SIC 3441.—Fabricated structural steel

SIC 3442.—Metal doors, sash, frames, molding, and trim

SIC 3443.—Fabricated plate work (boiler shops)

SIC 3444.—Sheet metal work

SIC 3449.—Architectural and miscellaneous metal work

Commodities primary to these industries are classified in the following Transportation Commodity Classifications (TCC):¹

TCC 342.—Cutlery, hand tools, and general hardware

TCC 343.—Plumbing fixtures and heating apparatus (except electric)

TCC 344.—Structural and miscellaneous metal products

Data for these commodities are included in the Commodity Series chapter: Commodity Group 34, Fabricated Metal Products.

Because the data are based on a probability sample, they are subject to sampling variability. The term "sampling variability" refers to the differences that would be expected between results of a sample survey and results that would have been obtained from a complete enumeration of plants and shipping documents. Estimates of sampling variability for Shipper Group 16 on total tons and on key items, are shown below:

Item	Estimated tons based on sample (thousands)	Sampling variability (percent)
Total tons.....	16,298	9.8
SHIPPER SUBGROUPS		
161 Cutlery, tools, and hardware..	1,785	8.7
162 Plumbing fixtures and heating apparatus, except electric...	2,345	12.6
163 Fabricated structural metal products.....	12,168	12.4
MEANS OF TRANSPORT		
Rail.....	3,661	11.5
Motor carrier.....	6,982	14.2
Private truck.....	5,161	23.5
Other.....	494	30.3
ORIGIN OF SHIPMENT (Geographic Division)		
New England.....	356	10.9
Middle Atlantic.....	2,445	14.3
East North Central.....	5,609	9.3
West North Central.....	881	21.4
South Atlantic.....	2,360	43.7
East South Central.....	944	32.3
West South Central.....	1,198	45.5
Mountain and Pacific.....	2,505	34.1

¹See *Commodity Classification for Transportation Statistics, 1963, Executive Office of the President, Bureau of the Budget.*

TABLE 1. **Tons and Ton-Miles of Shipments—Means of Transport and Shipper Subgroup: 1963**

Shipper subgroup	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
16 Fabricated metal products, except metal cans.....	16,298	100.0	22.5	42.8	31.7	0.1	0.5	1.9	0.5
161 Cutlery, tools and hardware....	1,785	100.0	32.9	50.2	3.5	.3	.1	11.2	1.8
162 Plumbing fixtures and heating apparatus, except electric....	2,345	100.0	24.9	60.4	12.7	—	.2	1.7	.1
163 Fabricated structural metal products.....	12,168	100.0	20.5	38.4	39.4	.1	.6	.6	.4
TON-MILES	(Millions of ton-miles)								
16 Fabricated metal products, except metal cans.....	6,133	100.0	40.6	36.6	17.7	.2	.4	4.2	.3
161 Cutlery, tools and hardware....	1,048	100.0	31.7	45.2	3.1	.5	.1	18.8	.6
162 Plumbing fixtures and heating apparatus, except electric....	1,388	100.0	50.0	40.3	7.8	—	.4	1.3	.2
163 Fabricated structural metal products.....	3,697	100.0	39.5	32.8	25.6	.1	.5	1.2	.3

TABLE 2. **Tons of Shipments—Means of Transport and Distance Shipped: 1963**

Distance shipped ¹	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
All distances.....	16,298	100.0	22.5	42.8	31.7	0.1	0.5	1.9	0.5
Under 50 miles.....	2,671	100.0	14.0	38.2	46.7	-	.4	.4	.3
50 to 99 miles.....	2,236	100.0	10.7	36.9	51.0	-	-	1.2	.2
100 to 199 miles.....	2,948	100.0	14.6	40.3	42.5	-	.7	.4	1.5
200 to 299 miles.....	2,090	100.0	13.8	63.6	20.6	-	.9	.6	.5
300 to 399 miles.....	1,649	100.0	21.3	56.3	18.5	.2	1.6	1.5	.6
400 to 499 miles.....	808	100.0	26.4	50.9	18.2	.1	-	3.7	.7
500 to 599 miles.....	667	100.0	29.9	44.3	18.7	.1	-	7.0	-
600 to 799 miles.....	1,227	100.0	36.7	36.1	24.3	.2	-	2.6	.1
800 to 999 miles.....	635	100.0	42.8	34.2	18.7	.1	-	4.2	-
1,000 to 1,199 miles.....	285	100.0	42.1	38.9	11.6	.1	-	6.4	.9
1,200 to 1,499 miles.....	189	100.0	49.1	25.2	13.2	.7	1.3	10.5	-
1,500 to 1,999 miles.....	650	100.0	76.3	15.9	4.4	.1	.3	3.0	-
2,000 miles or more.....	243	100.0	54.0	25.7	4.5	.4	.1	15.2	.1

NOTE: Percent distributions by ton-miles are about the same as those for tons because data are grouped in mileage blocks.

¹Distances of shipments to foreign destinations are calculated only to the American port of exit.

TABLE 3. **Tons and Ton-Miles of Shipments—Means of Transport and Weight: 1963**

Weight	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
Total.....	19,345	100.0	22.2	44.6	29.9	0.1	0.3	2.2	0.7
Shipments—									
Under 1,000 pounds.....	1,006	100.0	1.2	65.1	24.8	.9	.1	6.9	1.0
Under 50 pounds.....	39	100.0	.6	23.7	23.2	3.2	—	48.6	.7
50 to 99 pounds.....	59	100.0	1.4	62.9	22.4	1.4	—	11.2	.7
100 to 199 pounds.....	136	100.0	1.1	67.1	23.5	2.4	.1	4.9	.9
200 to 499 pounds.....	380	100.0	1.5	69.1	24.7	.3	.1	3.5	.8
500 to 999 pounds.....	392	100.0	1.1	65.0	25.9	.7	—	5.9	1.4
1,000 to 9,999 pounds.....	2,476	100.0	1.7	53.7	40.8	—	—	2.9	.9
1,000 to 1,999 pounds.....	540	100.0	1.1	57.4	37.4	.1	.1	2.9	1.0
2,000 to 2,999 pounds.....	396	100.0	.6	45.3	46.3	.1	—	6.2	1.5
3,000 to 4,999 pounds.....	673	100.0	1.9	52.0	43.0	—	—	1.9	1.2
5,000 to 9,999 pounds.....	867	100.0	2.3	56.5	38.7	—	—	2.1	.4
10,000 to 29,999 pounds.....	2,429	100.0	10.0	52.6	36.5	—	.1	.8	—
30,000 pounds and over.....	3,434	100.0	51.7	26.4	18.9	—	.8	1.2	1.0
TON-MILES	(Millions of ton-miles)								
Total.....	13,782	100.0	37.3	40.0	17.0	.2	.4	4.7	.4
Shipments—									
Under 1,000 pounds.....	447	100.0	2.9	75.4	8.6	1.7	.2	10.8	.4
Under 50 pounds.....	18	100.0	1.3	30.1	4.5	7.7	.1	56.1	.2
50 to 99 pounds.....	28	100.0	4.4	73.2	6.2	3.5	.2	12.0	.5
100 to 199 pounds.....	64	100.0	2.1	77.1	6.8	5.0	.5	8.1	.4
200 to 499 pounds.....	173	100.0	2.8	81.2	8.2	.6	.4	6.5	.3
500 to 999 pounds.....	164	100.0	3.2	73.9	10.7	.6	—	11.1	.5
1,000 to 9,999 pounds.....	844	100.0	3.3	64.1	25.3	.1	—	6.5	.7
1,000 to 1,999 pounds.....	185	100.0	2.7	76.2	13.7	.1	.1	6.8	.4
2,000 to 2,999 pounds.....	148	100.0	1.3	54.3	26.3	.3	—	17.3	.5
3,000 to 4,999 pounds.....	214	100.0	3.6	68.0	22.3	—	—	5.6	.5
5,000 to 9,999 pounds.....	297	100.0	4.3	58.8	34.1	—	—	1.7	1.1
10,000 to 29,999 pounds.....	863	100.0	22.9	47.0	28.1	—	.5	1.5	—
30,000 pounds and over.....	1,628	100.0	72.1	13.7	9.2	—	.6	3.9	.5

NOTE: Because of rounding, detail may not add to total.

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 4. **Tons of Shipments—Means of Transport,
Distance Shipped, and Weight: 1963**

Distance and weight	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS									
Total.....	19,345	100.0	22.2	44.6	29.9	0.1	0.3	2.2	0.7
Under 200 miles.....	4,406	100.0	15.6	40.3	42.0	-	-	.9	1.2
Under 1,000 pounds.....	450	100.0	.6	47.6	46.9	.1	-	2.9	1.9
1,000 to 9,999 pounds.....	1,304	100.0	1.2	37.7	57.8	-	-	1.8	1.5
10,000 pounds and over.....	2,652	100.0	25.3	40.4	33.2	-	-	.1	1.0
200 to 399 miles.....	2,085	100.0	18.9	57.7	20.9	.2	1.3	.9	.1
Under 1,000 pounds.....	191	100.0	.5	81.2	7.8	1.9	-	8.2	.4
1,000 pounds and over.....	1,894	100.0	20.8	55.3	22.2	-	1.4	.2	.1
400 miles and over.....	2,854	100.0	34.6	41.7	18.0	.2	.2	5.0	.3
Under 1,000 pounds.....	365	100.0	2.5	78.1	6.5	1.4	.2	11.0	.3
1,000 to 9,999 pounds.....	660	100.0	3.4	65.8	23.4	.1	-	6.9	.4
10,000 pounds and over.....	1,829	100.0	52.3	25.7	18.4	-	.2	3.1	.3

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 5. Tons and Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons and ton-miles	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
	TONS OF SHIPMENTS	(Thousands of tons)								
	Total products shipped.....	16,298	100.0	22.5	42.8	31.7	0.1	0.5	1.9	0.5
	Total primary commodities ¹ ..	12,512	100.0	21.8	41.1	33.6	.1	.6	2.2	.6
	Total other commodities ²	3,786	100.0	24.6	48.5	25.4	.1	-	1.0	.4
	Selected Primary Commodities ³									
342	Cutlery, hand tools and general hardware.....	932	100.0	13.0	65.3	5.3	.4	.1	15.7	.2
3423	Hand and edge tools (exc. machine tools and hand saws).. Builders' and cabinet hardware and fireplace equipment.....	281	100.0	14.6	68.3	6.7	.1	.2	10.0	.1
3428		286	100.0	7.6	54.7	5.7	.2	-	31.5	.3
3429	Miscellaneous hardware.....	270	100.0	18.6	70.4	5.2	.7	.1	4.9	.1
343	Plumbing fixtures and heating apparatus (exc. electric).....	1,805	100.0	32.7	51.2	14.7	-	.2	1.1	.1
3431	Metal sanitary ware.....	652	100.0	37.5	49.5	12.2	-	.6	.2	-
3432	Plumbing fixture fittings (brass goods) and trim.....	111	100.0	2.8	72.0	17.6	.1	.1	7.2	.2
3433	Heating equipment (exc. electric).....	1,042	100.0	33.0	49.9	16.0	-	-	1.0	.1
344	Structural and misc. metal products.....	9,774	100.0	20.6	37.0	39.6	.1	.8	1.2	.7
3441	Structural metal products.....	4,188	100.0	37.7	32.3	28.1	-	1.6	-	.3
3442	Metal doors, sash, frames, molding and trim.....	1,575	100.0	5.7	19.4	67.7	.1	.1	4.5	2.5
3443	Fabricated plate products (boiler shop products).....	1,447	100.0	9.0	25.2	63.7	.3	-	.9	.9
3444	Sheet metal products.....	1,380	100.0	9.7	49.4	38.9	-	-	1.8	.2
	TON-MILES	(Millions of ton-miles)								
	Total.....	6,133	100.0	40.6	36.6	17.7	.2	.4	4.2	.3
	Total primary commodities ¹ ..	4,901	100.0	39.9	35.1	19.3	.1	.5	4.7	.4
	Total other commodities ²	1,232	100.0	43.2	42.8	11.3	.2	-	2.2	.3
	Selected Primary Commodities ³									
342	Cutlery, hand tools and general hardware.....	603	100.0	16.2	59.5	3.9	.5	.2	19.6	.1
3423	Hand and edge tools (exc. machine tools and hand saws).. Builders' and cabinet hardware and fireplace equipment.....	211	100.0	21.8	56.5	7.4	.1	.3	13.9	-
3428		182	100.0	5.9	56.5	1.9	.3	-	35.3	.1
3429	Miscellaneous hardware.....	137	100.0	23.3	64.9	3.3	1.2	-	7.2	.1
343	Plumbing fixtures and heating apparatus (exc. electric).....	1,247	100.0	56.5	34.3	8.1	-	.4	.6	.1
3431	Metal sanitary ware.....	517	100.0	63.2	27.1	8.5	-	1.0	.2	-
3432	Plumbing fixture fittings (brass goods) and trim.....	72	100.0	6.8	70.8	16.3	.1	.2	5.2	.6
3433	Heating equipment (exc. electric).....	658	100.0	56.7	36.0	6.8	-	-	.4	.1

See footnotes at end of table.

TABLE 5. **Tons and Ton-Miles of Shipments—Means of Transport and Commodity: 1963**—Continued

TCC code	Commodity	Tons and ton-miles	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
		(Millions of ton-miles)								
344	Structural and miscellaneous metal products.....	3,051	100.0	37.9	30.5	27.0	0.1	0.5	3.5	0.5
3441	Structural metal products.....	1,118	100.0	67.5	20.2	10.5	-	1.5	-	.3
3442	Metal doors, sash, frames, molding and trim.....	875	100.0	17.8	17.2	53.0	.1	-	10.8	1.1
3443	Fabricated plate products (boiler shop products).....	354	100.0	23.4	40.3	33.7	.8	-	1.5	.3
3444	Sheet metal products.....	388	100.0	21.6	54.5	22.1	-	-	1.3	.5

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 342, 343, and 344.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 6. Tons of Shipments—Distance Shipped and Commodity: 1963

TCC code	Commodity	Tons (thousands)	Percent distribution by distance of shipment								
			All distances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
	Total products shipped..	16,298	100.0	30.1	18.1	12.8	10.1	5.0	15.5	2.9	5.5
	Total primary commodities ¹	12,512	100.0	30.0	17.9	11.4	10.2	4.9	16.8	2.8	6.0
	Total other commodities ²	3,786	100.0	30.4	18.7	17.4	10.0	5.3	11.4	3.2	3.6
	Selected Primary Commodities ³										
342	Cutlery, hand tools and general hardware.....	932	100.0	12.6	8.5	13.1	14.5	7.1	23.8	8.0	12.4
3423	Hand and edge tools (exc. machine tools and hand saws).....	281	100.0	12.8	9.3	15.1	9.7	9.5	15.9	9.2	18.5
3428	Builders' and cabinet hardware and fireplace equipment.....	286	100.0	6.3	4.6	15.1	21.7	3.3	31.5	4.1	13.4
3429	Miscellaneous hardware...	270	100.0	18.1	11.0	12.3	15.0	7.1	22.7	7.8	6.0
343	Plumbing fixtures and heating apparatus (exc. electric).....	1,805	100.0	8.1	9.9	11.5	12.3	7.5	29.9	6.1	14.7
3431	Metal sanitary ware.....	652	100.0	5.0	6.6	12.0	13.2	4.2	33.0	9.4	16.6
3432	Plumbing fixture fittings (brass goods) and trim..	111	100.0	10.1	14.3	8.9	8.8	12.2	26.5	5.6	13.6
3433	Heating equipment (exc. electric).....	1,042	100.0	9.8	11.5	11.5	12.1	9.1	28.3	4.1	13.6
344	Structural and miscellaneous metal products....	9,774	100.0	35.6	20.2	11.3	9.4	4.2	13.7	1.7	3.9
3441	Structural metal products	4,188	100.0	41.3	22.0	11.6	7.7	2.3	10.4	.9	3.8
3442	Metal doors, sash, frames, molding and trim.....	1,575	100.0	14.5	17.7	9.2	9.1	4.3	32.1	4.3	8.8
3443	Fabricated plate products (boiler shop products)..	1,447	100.0	45.0	16.2	13.7	5.0	9.2	7.5	1.4	2.0
3444	Sheet metal products.....	1,380	100.0	28.8	27.9	12.5	12.6	4.5	9.3	2.4	2.0

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 342, 343, and 344.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 7. Tons of Shipments—Means of Transport, Geographic Division of Origin, and Distance Shipped: 1963

Geographic division and distance	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
United States, total.....	16,298	100.0	22.5	42.8	31.7	0.1	0.5	1.9	0.5
Under 200 miles.....	7,855	100.0	13.3	38.6	46.4	-	.4	.6	.7
200 to 399 miles.....	3,739	100.0	17.1	60.4	19.7	.1	1.2	1.0	.5
400 to 599 miles.....	1,475	100.0	28.0	47.8	18.5	.1	-	5.2	.4
600 to 999 miles.....	1,862	100.0	38.8	35.5	22.4	.1	-	3.2	-
1,000 miles and over.....	1,367	100.0	61.5	23.7	7.2	.2	.3	6.9	.2
New England and Middle Atlantic.....	2,801	100.0	27.0	49.4	19.3	.2	1.9	2.1	.1
Under 200 miles.....	1,434	100.0	27.1	42.2	29.7	-	.2	.7	.1
200 to 399 miles.....	728	100.0	32.0	48.1	11.9	.4	6.1	1.4	.1
400 to 599 miles.....	231	100.0	8.8	80.3	8.0	.3	-	2.6	-
600 to 999 miles.....	205	100.0	24.9	63.8	4.3	.4	-	6.6	-
1,000 miles and over.....	203	100.0	31.6	55.0	1.3	1.0	1.9	9.2	-
East North Central and West									
North Central.....	6,490	100.0	30.7	43.2	21.6	.1	-	3.8	.6
Under 200 miles.....	2,602	100.0	12.4	46.5	38.4	-	-	1.5	1.2
200 to 399 miles.....	1,280	100.0	21.8	57.4	18.7	.1	-	1.9	.1
400 to 599 miles.....	819	100.0	36.5	47.9	6.9	.1	-	8.6	-
600 to 999 miles.....	999	100.0	53.6	35.6	6.2	.1	-	4.4	.1
1,000 miles and over.....	790	100.0	70.5	14.3	5.7	.1	.1	9.2	.1
South Atlantic, East South Central and West South Central.....	4,502	100.0	16.3	23.5	59.1	-	.4	.2	.5
Under 200 miles.....	2,258	100.0	11.4	10.1	77.4	-	.9	.1	.1
200 to 399 miles.....	1,007	100.0	7.7	52.5	38.0	-	-	.1	1.7
400 to 599 miles.....	337	100.0	23.2	27.6	48.8	.1	-	.3	-
600 miles and over.....	900	100.0	35.6	23.0	40.8	-	-	.4	.2
Mountain and Pacific ¹	2,505	100.0	7.2	69.3	22.0	-	.3	.1	1.1
Under 200 miles.....	1,561	100.0	5.0	63.6	29.6	-	.4	.1	1.3
200 to 599 miles.....	811	100.0	8.2	83.4	7.4	-	-	.1	.9
600 miles and over.....	133	100.0	26.3	50.6	21.8	.5	-	.8	-

¹No data were obtained on shipments originating in Alaska and Hawaii.

CENSUS GEOGRAPHIC DIVISIONS

New England—Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut
 Middle Atlantic—New York, New Jersey, Pennsylvania
 East North Central—Ohio, Indiana, Illinois, Michigan, Wisconsin
 West North Central—Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, Kansas
 South Atlantic—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida
 East South Central—Kentucky, Tennessee, Alabama, Mississippi
 West South Central—Arkansas, Louisiana, Oklahoma, Texas
 Mountain—Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada
 Pacific—Washington, Oregon, California, Alaska, Hawaii

TABLE 8. Tons and Ton-Miles of Shipments—Means of Transport and Geographic Division of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
United States, total.....	16,298	100.0	22.5	42.8	31.7	0.1	0.5	1.9	0.5
Shipments originating from—									
New England.....	356	100.0	14.0	73.5	8.1	.3	.2	3.9	-
Middle Atlantic.....	2,445	100.0	28.9	45.9	21.0	.2	2.1	1.8	.1
East North Central.....	5,609	100.0	30.8	43.5	21.2	.1	-	3.8	.6
West North Central.....	881	100.0	29.8	41.5	24.5	.1	-	3.9	.2
South Atlantic.....	2,360	100.0	7.4	21.0	71.5	-	-	.1	-
East South Central.....	944	100.0	32.1	40.0	27.5	-	-	.4	-
West South Central.....	1,198	100.0	21.2	15.4	60.0	-	1.7	.1	1.6
Mountain.....	2,505	100.0	7.2	69.3	22.0	-	.3	.1	1.1
Pacific ¹									
TON-MILES	(Millions of ton-miles)								
United States, total.....	6,133	100.0	40.6	36.6	17.7	.2	.4	4.2	.3
Shipments originating from—									
New England.....	188	100.0	19.4	72.3	.9	.6	.2	6.6	-
Middle Atlantic.....	741	100.0	30.4	52.7	9.2	.6	2.6	4.5	-
East North Central.....	2,664	100.0	53.5	30.1	9.6	.1	-	6.4	.3
West North Central.....	426	100.0	49.0	36.8	5.8	.1	.1	7.9	.3
South Atlantic.....	642	100.0	28.3	22.4	49.0	-	-	.3	-
East South Central.....	423	100.0	47.1	38.6	13.6	-	-	.7	-
West South Central.....	517	100.0	26.9	16.8	54.3	-	.4	.1	1.5
Mountain.....	532	100.0	13.7	69.1	15.6	.3	.1	.3	.9
Pacific ¹									

¹No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 9. Tons and Ton-Miles of Shipments—Geographic Division of Destination and of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by geographic division of destination									
		All divisions	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific ¹
TONS OF SHIPMENTS	(Thousands of tons)										
United States, total.....	16,298	100.0	3.6	15.5	22.5	5.6	16.4	6.6	8.0	6.7	15.1
Shipments originating from—											
New England.....	356	100.0	25.7	28.7	17.9	4.7	11.2	2.4	2.3	1.8	5.3
Middle Atlantic.....	2,445	100.0	8.1	53.7	20.2	2.6	9.1	1.3	1.9	.7	2.4
East North Central.....	5,609	100.0	2.9	13.1	45.3	8.2	6.4	8.0	3.9	3.7	8.5
West North Central.....	881	100.0	1.5	8.9	32.1	22.4	10.2	4.2	8.2	4.9	7.6
South Atlantic.....	2,360	100.0	4.5	9.5	3.7	1.1	71.9	1.4	4.3	.1	3.5
East South Central.....	944	100.0	1.2	4.9	16.2	3.1	16.1	43.2	7.3	3.0	5.0
West South Central.....	1,198	100.0	.1	1.7	2.1	5.1	9.2	8.4	63.3	6.1	4.0
Mountain.....	2,505	100.0	-	.7	.4	2.3	.2	.3	1.1	28.2	66.8
Pacific ²											
TON-MILES	(Millions of ton-miles)										
United States, total.....	6,133	100.0	3.8	11.3	12.0	6.5	12.4	6.5	9.3	9.8	28.4
Shipments originating from—											
New England.....	188	100.0	3.4	11.3	23.5	9.7	10.1	3.8	6.5	5.9	25.8
Middle Atlantic.....	741	100.0	6.7	20.5	22.9	7.0	9.4	2.8	7.7	4.2	18.8
East North Central.....	2,664	100.0	4.3	10.7	12.9	7.0	7.0	7.6	7.2	10.2	33.1
West North Central.....	426	100.0	3.2	17.1	12.3	5.7	16.9	3.8	9.4	8.8	22.8
South Atlantic.....	642	100.0	5.5	9.8	6.6	3.2	36.2	2.2	10.3	.7	25.5
East South Central.....	423	100.0	2.5	7.4	11.4	4.8	18.2	18.5	7.9	8.3	21.0
West South Central.....	517	100.0	.4	5.2	4.4	9.3	18.1	9.0	26.7	12.4	14.5
Mountain.....	532	100.0	.5	7.1	3.8	5.5	2.0	2.2	5.8	46.3	26.8
Pacific ²											

¹Shipments to Alaska and Hawaii from the 48 conterminous States and the District of Columbia are included.

²No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 10. **Tons and Ton-Miles of Shipments—Means of Transport and Employment Size of Establishment: 1963**

Employment size of establishment	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS		(Thousands of tons)							
Total.....	16,298	100.0	22.5	42.8	31.7	0.1	0.5	1.9	0.5
Number of employees—									
Under 20 employees.....	713	100.0	1.0	22.0	76.2	-	-	.6	.2
20 to 99 employees.....	3,670	100.0	9.5	50.9	35.9	-	.1	2.2	1.4
100 to 499 employees.....	7,865	100.0	15.7	45.7	35.8	.1	.1	2.3	.3
500 employees and over.....	4,050	100.0	51.1	33.5	12.1	.1	1.7	1.3	.2
TON-MILES		(Millions of ton-miles)							
Total.....	6,133	100.0	40.6	36.6	17.7	.2	.4	4.2	.3
Number of employees—									
Under 20 employees.....	97	100.0	1.3	58.7	38.2	-	-	1.6	.2
20 to 99 employees.....	1,108	100.0	30.8	47.3	14.1	.1	-	7.0	.7
100 to 499 employees.....	2,752	100.0	29.2	40.8	24.8	.2	.2	4.5	.3
500 employees and over.....	2,176	100.0	61.7	25.1	9.6	.1	.8	2.5	.2

TABLE 11. **Tons of Shipments—Distance Shipped and Employment Size of Establishment: 1963**

Employment size of establishment	Tons (thousands)	Percent distribution by distance of shipment								
		All distances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
Total tons.....	16,298	100.0	30.1	18.1	12.8	10.1	5.0	15.5	2.9	5.5
Number of employees—										
Under 20 employees.....	713	100.0	65.1	24.5	2.8	1.0	1.1	3.8	.7	1.0
20 to 99 employees.....	3,670	100.0	36.3	21.7	16.6	8.3	1.8	8.5	1.6	5.2
100 to 499 employees.....	7,865	100.0	29.9	19.2	12.4	11.9	5.7	13.8	2.8	4.3
500 employees and over.....	4,050	100.0	18.6	11.6	11.9	9.9	7.0	27.4	4.8	8.8

TABLE 12. **Tons of Shipments—Distance Shipped and
Production Area of Origin: 1963**

Production Area of origin	Tons (thousands)	Percent distribution by distance of shipment							
		All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
TONS OF SHIPMENTS									
Total.....	16,298	100.0	30.1	18.1	12.8	15.1	15.5	2.9	5.5
Production Areas ¹ —									
2.....	200	100.0	26.9	14.5	15.0	8.9	20.5	6.9	7.3
3.....	235	100.0	50.2	12.0	5.4	6.8	13.6	9.5	2.5
4.....	392	100.0	80.6	8.3	4.5	2.6	2.0	.5	1.5
5.....	651	100.0	48.0	9.7	15.8	10.3	8.3	3.2	4.7
11.....	1,198	100.0	28.3	20.0	14.9	23.2	7.3	1.0	5.3
12.....	563	100.0	31.2	15.9	20.8	28.6	.7	2.7	.1
15.....	931	100.0	33.4	15.7	9.6	12.6	22.7	.9	5.1
16.....	231	100.0	31.4	5.3	21.7	19.4	15.9	2.7	3.6
18.....	357	100.0	10.6	32.5	19.7	13.3	16.3	5.8	1.8
25.....	1,283	100.0	47.4	13.1	5.9	26.7	3.9	1.3	1.7
Balance of Production Areas....	2,503	100.0	30.1	17.3	17.8	17.2	9.0	3.7	4.9
SMSA's outside Production Areas.....	3,930	100.0	28.4	27.0	14.6	9.9	13.6	3.2	3.3
Balance of United States.....	3,824	100.0	18.0	13.9	8.5	14.0	31.0	3.2	11.4

¹For description of Production Areas, see map in appendix C.

TABLE 13. **Tons and Ton-Miles of Shipments—Area of Destination
and of Origin: 1963**

Area of origin	Tons and ton-miles	Percent distribution by area of destination			
		All areas of destination	Production Areas	SMSA's outside Production Areas	Areas outside SMSA's
TONS OF SHIPMENTS	(Thousands of tons)				
United States, total.....	16,298	100.0	41.5	23.4	35.1
In Production Areas.....	8,544	100.0	53.6	16.1	30.3
In SMSA's outside Production Areas.....	3,930	100.0	18.8	31.4	49.8
Outside of SMSA's.....	3,824	100.0	37.8	31.4	30.8
TON-MILES	(Millions of ton- miles)				
United States, total.....	6,133	100.0	46.3	28.1	25.6
In Production Areas.....	2,696	100.0	49.5	23.9	26.6
In SMSA's outside Production Areas.....	1,262	100.0	33.0	30.2	36.8
Outside of SMSA's.....	2,175	100.0	50.2	32.1	17.7

Shipper Group 17

Metal Cans and Miscellaneous Fabricated Metal Products

Data for Shipper Group 17 are based on a probability sample of 39,521 shipments reported by 351 establishments. The shipper group has been divided into four subgroups which can be closely related to industries classified in the Standard Industrial Classification (SIC). (This is the system of industrial classification developed over a period of years by experts on classification in government and private industry under the guidance of the Bureau of the Budget.) The subgroup and related SIC industries are as follows:

Shipper Subgroup 171.—Metal cans
SIC 3411.—Metal cans

Shipper Subgroup 172.—Bolts, nuts, screws, rivets and washers
SIC 3451.—Screw machine products
SIC 3452.—Bolts, nuts, screws, rivets and washers

Shipper Subgroup 173.—Metal stampings and metal plating, polishing and engraving
SIC 3461.—Metal stampings
SIC 3471.—Electroplating, plating, polishing, anodizing and coloring
SIC 3479.—Coating, engraving, and allied services, n.e.c.

Shipper Subgroup 174.—Miscellaneous fabricated wire products and other miscellaneous fabricated metal products
SIC 3481.—Miscellaneous fabricated wire products
SIC 3491.—Metal shipping barrels, drums, kegs, and pails
SIC 3492.—Safes and vaults
SIC 3493.—Steel springs
SIC 3494.—Valves and pipe fittings, except plumbers' brass goods
SIC 3496.—Collapsible tubes
SIC 3497.—Metal foil and leaf
SIC 3498.—Fabricated pipe and fabricated pipe fittings
SIC 3499.—Fabricated metal products, n.e.c.

Commodities primary to these industries are classified in the following Transportation Commodity Classifications (TCC):¹

TCC 341.—Metal cans
TCC 345.—Bolts, nuts, screws, rivets, washers, and other industrial fasteners

TCC 346.—Metal stampings
TCC 348.—Miscellaneous fabricated wire products
TCC 349.—Miscellaneous fabricated metal products

Data for these commodities are included in the Commodity Series chapter: Commodity Group 34, Fabricated Metal Products.

Because the data are based on a probability sample, they are subject to sampling variability. The term "sampling variability" refers to the differences that would be expected between results of a sample survey and results that would have been obtained from a complete enumeration of plants and shipping documents. Estimates of sampling variability for Shipper Group 17 on total tons and on key items, are shown below:

Item	Estimated tons based on sample (thousands)	Sampling variability (percent)
Total tons.....	12,787	8.4
SHIPPER SUBGROUPS		
171 Metal cans.....	3,843	17.5
172 Bolts, nuts, screws, rivets, and washers.....	1,709	32.2
173 Metal stampings and metal plating, polishing and engraving.....	3,922	13.0
174 Miscellaneous fabricated wire products and other miscellaneous fabricated metal products.....	3,313	16.2
MEANS OF TRANSPORT		
Rail.....	3,464	17.9
Motor carrier.....	7,072	8.3
Private truck.....	1,921	17.8
Other.....	330	11.9
ORIGIN OF SHIPMENT (Geographic Division)		
New England.....	477	14.5
Middle Atlantic.....	2,553	14.5
East North Central.....	5,768	14.9
West North Central.....	943	53.8
South Atlantic.....	908	30.4
East South Central.....	304	41.8
West South Central.....	406	23.4
Mountain and Pacific.....	1,428	43.8

¹See *Commodity Classification for Transportation Statistics, 1963, Executive Office of the President, Bureau of the Budget.*

TABLE 1. Tons and Ton-Miles of Shipments—Means of Transport and Shipper Subgroup: 1963

Shipper subgroup	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
17 Metal cans and miscellaneous fabricated metal products.....	12,787	100.0	27.1	55.4	15.0	0.2	0.9	1.2	0.2
171 Metal cans.....	3,843	100.0	40.9	42.0	15.8	-	.6	.3	.4
172 Bolts, nuts, screws, rivets and washers.....	1,709	100.0	27.8	63.9	4.0	.4	.1	3.3	.5
173 Metal stampings and metal plating, polishing and engraving	3,922	100.0	24.0	60.5	12.1	.3	1.8	1.1	.2
174 Miscellaneous fabricated wire products and other miscellaneous fabricated metal products.	3,313	100.0	14.4	60.0	23.2	.2	.8	1.3	.1
TON-MILES	(Millions of ton-miles)								
17 Metal cans and miscellaneous fabricated metal products.....	4,655	100.0	41.6	46.9	7.0	.4	2.3	1.7	.1
171 Metal cans.....	1,318	100.0	73.6	18.3	5.4	-	2.3	.2	.2
172 Bolts, nuts, screws, rivets and washers.....	577	100.0	40.7	53.4	1.7	1.0	.1	2.9	.2
173 Metal stampings and metal plating, polishing and engraving	1,435	100.0	33.4	56.4	4.1	.6	3.6	1.8	.1
174 Miscellaneous fabricated wire products and other miscellaneous fabricated metal products.	1,325	100.0	19.2	61.8	13.9	.4	2.0	2.7	-

TABLE 2. Tons of Shipments—Means of Transport and Distance Shipped: 1963

Distance shipped ¹	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
All distances.....	12,787	100.0	27.1	55.4	15.0	0.2	0.9	1.2	0.2
Under 50 miles.....	2,132	100.0	13.4	44.5	41.3	-	-	.5	.3
50 to 99 miles.....	1,875	100.0	17.4	61.1	17.8	.1	.1	2.8	.7
100 to 199 miles.....	1,877	100.0	15.7	69.7	13.5	-	.1	.8	.2
200 to 299 miles.....	2,033	100.0	30.3	62.9	5.6	.1	.3	.6	.2
300 to 399 miles.....	925	100.0	31.0	59.1	7.5	.2	1.3	.7	.2
400 to 499 miles.....	859	100.0	31.4	56.6	10.8	.2	-	.8	.2
500 to 599 miles.....	644	100.0	43.9	47.6	6.9	.3	.3	1.0	-
600 to 799 miles.....	1,041	100.0	36.6	50.8	6.7	.4	4.0	1.4	.1
800 to 999 miles.....	521	100.0	37.2	51.1	7.9	.4	2.0	1.3	.1
1,000 to 1,499 miles.....	353	100.0	43.6	42.9	1.6	.8	10.1	1.0	-
1,500 to 1,999 miles.....	336	100.0	74.0	18.7	2.8	.5	1.0	2.7	.3
2,000 miles or more.....	191	100.0	65.0	20.9	3.7	1.0	3.5	5.9	-

NOTE: Percent distributions by ton-miles are about the same as those for tons because data are grouped in mileage blocks.

¹Distances of shipments to foreign destinations are calculated only to the American port of exit.

TABLE 3. **Tons and Ton-Miles of Shipments—Means of Transport and Weight: 1963**

Weight	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS		(Thousands of tons)							
Total.....	19,978	100.0	27.4	55.9	13.8	0.2	1.1	1.3	0.3
Shipments—									
Under 1,000 pounds.....	1,016	100.0	2.8	79.6	10.3	1.2	.2	5.6	.3
Under 50 pounds.....	36	100.0	2.6	30.6	7.1	5.9	-	53.7	.1
50 to 99 pounds.....	63	100.0	2.4	63.4	17.2	3.6	.1	13.2	.1
100 to 199 pounds.....	133	100.0	3.1	79.1	9.6	2.0	.1	5.8	.3
200 to 499 pounds.....	360	100.0	2.5	81.7	10.9	.9	.2	3.6	.2
500 to 999 pounds.....	424	100.0	3.0	84.6	9.2	.4	.3	2.0	.5
1,000 to 9,999 pounds.....	2,317	100.0	3.1	74.5	20.1	.1	.1	1.6	.5
1,000 to 1,999 pounds.....	562	100.0	2.3	80.2	14.8	.2	.1	2.3	.1
2,000 to 2,999 pounds.....	385	100.0	1.6	74.1	23.1	-	.1	1.0	.1
3,000 to 4,999 pounds.....	461	100.0	2.2	78.4	16.5	.3	.1	1.8	.7
5,000 to 9,999 pounds.....	909	100.0	4.7	69.2	23.9	-	.1	1.2	.9
10,000 to 29,999 pounds.....	3,256	100.0	22.7	56.8	18.8	.1	.4	.9	.3
30,000 pounds and over.....	3,389	100.0	55.8	35.5	5.8	-	2.6	.1	.2
TON-MILES		(Millions of ton- miles)							
Total.....	13,856	100.0	42.1	46.5	6.7	.3	2.4	1.8	.2
Shipments—									
Under 1,000 pounds.....	429	100.0	5.6	82.5	1.4	2.3	.1	7.8	.3
Under 50 pounds.....	16	100.0	4.2	31.4	1.3	10.1	.1	52.6	.3
50 to 99 pounds.....	26	100.0	4.4	72.0	1.6	8.5	.3	13.1	.1
100 to 199 pounds.....	59	100.0	6.6	79.1	1.2	3.0	.2	9.7	.2
200 to 499 pounds.....	158	100.0	5.1	85.0	1.5	1.8	.1	6.4	.1
500 to 999 pounds.....	170	100.0	5.9	87.8	1.3	.8	.2	3.5	.5
1,000 to 9,999 pounds.....	712	100.0	5.9	78.7	10.1	.2	.3	4.6	.2
1,000 to 1,999 pounds.....	207	100.0	4.3	84.4	3.4	.3	-	7.6	-
2,000 to 2,999 pounds.....	114	100.0	3.3	83.9	7.8	-	-	4.8	.2
3,000 to 4,999 pounds.....	145	100.0	4.5	79.4	8.8	.6	.8	5.7	.2
5,000 to 9,999 pounds.....	246	100.0	9.2	71.5	17.5	-	.2	1.2	.4
10,000 to 29,999 pounds.....	1,007	100.0	29.5	54.9	13.6	.2	1.2	.4	.2
30,000 pounds and over.....	1,708	100.0	73.8	19.0	2.5	-	4.6	-	.1

NOTE: Because of rounding, detail may not add to total.

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 4. **Tons of Shipments—Means of Transport,
Distance Shipped, and Weight: 1963**

Distance and weight	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS									
Total.....	19,978	100.0	27.4	55.9	13.8	0.2	1.1	1.3	0.3
Under 200 miles.....	4,230	100.0	14.8	59.6	23.4	.1	.1	1.5	.5
Under 1,000 pounds.....	423	100.0	1.1	69.9	23.7	.2	.4	4.5	.2
1,000 to 9,999 pounds.....	1,193	100.0	1.2	65.9	30.9	-	.1	1.1	.8
10,000 pounds and over.....	2,614	100.0	23.2	55.2	19.9	.1	-	1.2	.4
200 to 399 miles.....	2,458	100.0	30.7	61.2	6.5	.1	.7	.5	.3
Under 1,000 pounds.....	212	100.0	1.5	91.5	1.4	.9	-	4.6	.1
1,000 pounds and over.....	2,246	100.0	33.4	58.5	7.0	-	.7	.1	.3
400 to 599 miles.....	1,295	100.0	37.9	51.9	8.8	.3	.2	.8	.1
Under 1,000 pounds.....	145	100.0	4.0	88.3	.4	2.2	-	4.4	.7
1,000 pounds and over.....	1,150	100.0	42.2	47.5	9.8	-	.2	.3	-
600 miles and over.....	1,995	100.0	43.2	44.3	5.7	.5	4.2	2.0	.1
Under 1,000 pounds.....	236	100.0	6.1	81.1	.4	2.7	.1	9.2	.4
1,000 pounds and over.....	1,759	100.0	48.1	39.3	6.5	.2	4.7	1.1	.1

NOTE: Because of rounding, detail may not add to total.

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 5. Tons and Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons and ton-miles	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
	TONS OF SHIPMENTS	(Thousands of tons)								
	Total products shipped.....	12,787	100.0	27.1	55.4	15.0	0.2	0.9	1.2	0.2
	Total primary commodities ¹ ..	7,901	100.0	22.6	58.0	17.2	.2	.3	1.4	.3
	Total other commodities ²	4,886	100.0	34.4	50.8	11.6	.2	2.0	.8	.2
	Selected Primary Commodities ³									
341	Metal cans.....	2,297	100.0	34.7	42.9	21.7	-	.3	.1	.3
345	Bolts, nuts, screws, rivets, washers and other industrial fasteners.....	1,542	100.0	29.5	60.6	5.6	.4	-	3.4	.5
346	Metal stampings.....	1,818	100.0	13.9	75.1	9.4	.1	.3	.9	.3
348	Miscellaneous fabricated wire products.....	513	100.0	1.8	79.1	15.4	.1	.1	3.2	.3
349	Miscellaneous fabricated metal products.....	1,725	100.0	15.7	51.6	30.2	.3	.8	1.4	-
3494	Valves and pipe fittings(except plumbers' brass goods and fittings).....	675	100.0	10.6	69.2	15.4	.3	1.8	2.6	.1
3499	Fabricated metal products,n.e.c.	508	100.0	14.4	47.1	36.5	.6	.1	1.3	-
	TON-MILES	(Millions of ton-miles)								
	Total.....	4,655	100.0	41.6	46.9	7.0	.4	2.3	1.7	.1
	Total primary commodities ¹ ..	2,645	100.0	32.3	54.7	9.0	.5	.9	2.5	.1
	Total other commodities ²	2,010	100.0	53.9	36.3	4.3	.4	4.2	.8	.1
	Selected Primary Commodities ³									
341	Metal cans.....	537	100.0	56.4	30.9	11.3	-	.9	.2	.3
345	Bolts, nuts, screws, rivets, washers and other industrial fasteners.....	513	100.0	44.0	50.0	1.9	.9	.1	2.9	.2
346	Metal stampings.....	711	100.0	24.7	67.1	5.3	.4	.8	1.6	.1
348	Miscellaneous fabricated wire products.....	189	100.0	4.0	80.9	5.9	.1	.2	8.8	.1
349	Miscellaneous fabricated metal products.....	690	100.0	20.5	56.9	17.0	.7	1.8	3.1	-
3494	Valves and pipe fittings(except plumbers' brass goods and fittings).....	416	100.0	15.7	57.2	19.1	.5	3.0	4.5	-
3499	Fabricated metal products,n.e.c.	182	100.0	28.7	53.4	15.0	1.4	.1	1.4	-

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 341, 345, 346, 348 and 349.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 6. Tons of Shipments—Distance Shipped and
Commodity: 1963

TCC code	Commodity	Tons (thousands)	Percent distribution by distance of shipment								
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
	Total products shipped.	12,787	100.0	31.3	14.7	15.9	7.2	6.7	17.3	2.8	4.1
	Total primary com- modities ¹	7,901	100.0	31.9	14.8	18.2	6.6	6.6	16.5	2.3	3.1
	Total other com- modities ²	4,886	100.0	30.5	14.4	12.3	8.2	6.8	18.5	3.5	5.8
	Selected Primary Commodities ³										
341	Metal cans.....	2,297	100.0	46.0	16.4	13.5	7.1	3.4	10.3	2.3	1.0
345	Bolts, nuts, screws, rivets, washers and other indus- trial fasteners.....	1,542	100.0	23.9	16.2	23.7	7.5	14.9	8.7	.7	4.4
346	Metal stampings.....	1,818	100.0	21.2	14.6	27.8	4.5	5.2	20.4	2.5	3.8
348	Miscellaneous fabricated wire products.....	513	100.0	21.1	23.5	15.3	8.3	7.6	19.1	2.0	3.1
349	Miscellaneous fabricated metal products.....	1,725	100.0	34.6	9.2	10.2	7.0	4.9	26.7	3.6	3.8
3494	Valves and pipe fittings (except plumbers' brass goods and fittings).....	675	100.0	14.3	11.1	8.1	8.1	4.7	39.5	5.7	8.5
3499	Fabricated metal products, n.e.c.....	508	100.0	36.9	4.5	11.7	5.3	7.8	28.5	3.8	1.5

¹"Primary Commodities" are those classified in Transportation Commodity Classification (TCC) codes 341, 345, 346, 348 and 349.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 7. Tons of Shipments—Means of Transport, Geographic Division of Origin, and Distance Shipped: 1963

Geographic division and distance	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
United States, total.....	12,787	100.0	27.1	55.4	15.0	0.2	0.9	1.2	0.2
Under 200 miles.....	5,884	100.0	15.4	57.9	24.9	-	.1	1.3	.4
200 to 399 miles.....	2,958	100.0	30.5	61.8	6.2	.1	.6	.6	.2
400 to 599 miles.....	1,503	100.0	36.8	52.8	9.1	.2	.1	.9	.1
600 to 999 miles.....	1,562	100.0	36.8	50.9	7.1	.4	3.3	1.4	.1
1,000 miles and over.....	880	100.0	59.8	28.9	2.5	.8	5.2	2.7	.1
New England and Middle Atlantic.....	3,030	100.0	25.1	56.3	15.9	.2	1.0	1.4	.1
Under 200 miles.....	1,717	100.0	15.6	57.4	25.7	-	.2	1.0	.1
200 to 399 miles.....	484	100.0	34.8	62.9	1.0	.1	-	.7	.5
400 to 599 miles.....	280	100.0	42.3	48.6	7.1	.4	-	1.6	-
600 to 999 miles.....	334	100.0	38.3	53.7	3.8	1.1	.7	2.3	.1
1,000 miles and over.....	215	100.0	36.7	45.4	1.5	.9	10.8	4.7	-
East North Central and West North Central.....	6,711	100.0	23.7	59.9	13.7	.2	1.0	1.3	.2
Under 200 miles.....	2,741	100.0	14.0	59.3	24.4	.1	-	1.8	.4
200 to 399 miles.....	2,000	100.0	29.4	63.4	5.7	.1	.8	.6	-
400 to 599 miles.....	948	100.0	29.2	59.2	10.3	.2	.2	.7	.2
600 to 999 miles.....	743	100.0	26.4	62.0	4.3	.3	5.4	1.5	.1
1,000 miles and over.....	279	100.0	51.8	38.6	1.3	1.1	3.6	3.4	.2
South Atlantic, East South Central and West South Central.....	1,618	100.0	22.3	54.3	21.2	.1	1.0	1.0	.1
Under 200 miles.....	713	100.0	12.5	59.3	27.0	-	-	1.1	.1
200 to 399 miles.....	340	100.0	17.6	64.6	16.7	.1	-	.5	.5
400 miles and over.....	565	100.0	37.5	41.9	16.6	.2	2.8	1.0	-
Mountain and Pacific ¹	1,428	100.0	52.8	32.9	12.5	.1	.5	.5	.7
Under 200 miles.....	713	100.0	23.4	52.0	23.0	-	.1	.4	1.1
200 miles and over.....	715	100.0	81.8	13.9	2.1	.3	1.0	.5	.4

¹No data were obtained on shipments originating in Alaska and Hawaii.

CENSUS GEOGRAPHIC DIVISIONS

New England—Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut
Middle Atlantic—New York, New Jersey, Pennsylvania
East North Central—Ohio, Indiana, Illinois, Michigan, Wisconsin
West North Central—Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, Kansas
South Atlantic—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida
East South Central—Kentucky, Tennessee, Alabama, Mississippi
West South Central—Arkansas, Louisiana, Oklahoma, Texas
Mountain—Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada
Pacific—Washington, Oregon, California, Alaska, Hawaii

TABLE 8. Tons and Ton-Miles of Shipments—Means of Transport and Geographic Division of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS		(Thousands of tons)							
United States, total.....	12,787	100.0	27.1	55.4	15.0	0.2	0.9	1.2	0.2
Shipments originating from—									
New England.....	477	100.0	20.6	63.0	14.3	.4	.3	1.4	-
Middle Atlantic.....	2,553	100.0	26.0	54.9	16.2	.2	1.1	1.4	.2
East North Central.....	5,768	100.0	24.8	57.8	14.2	.2	1.2	1.5	.3
West North Central.....	943	100.0	16.7	72.1	10.5	.1	-	.6	-
South Atlantic.....	908	100.0	22.2	65.8	10.2	.1	-	1.4	.3
East South Central.....	304	100.0	9.0	43.5	47.2	.2	-	.1	-
West South Central.....	406	100.0	32.6	36.7	26.3	-	3.9	.5	-
Mountain.....	1,428	100.0	52.8	32.9	12.5	.1	.5	.5	.7
Pacific ¹									
TON-MILES		(Millions of ton-miles)							
United States, total.....	4,655	100.0	41.6	46.9	7.0	.4	2.3	1.7	.1
Shipments originating from—									
New England.....	249	100.0	39.2	56.1	2.9	.8	.1	.9	-
Middle Atlantic.....	746	100.0	37.0	49.8	4.7	.6	3.9	3.9	.1
East North Central.....	1,893	100.0	34.3	53.5	7.4	.4	2.5	1.7	.2
West North Central.....	357	100.0	18.0	77.6	3.1	.2	-	1.1	-
South Atlantic.....	261	100.0	34.6	57.9	4.2	.3	.1	2.7	.2
East South Central.....	186	100.0	14.8	41.3	43.7	.2	-	-	-
West South Central.....	142	100.0	45.5	29.9	12.8	-	11.5	.3	-
Mountain.....	821	100.0	81.5	13.0	2.4	.4	1.8	.7	.2
Pacific ¹									

¹No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 9. Tons and Ton-Miles of Shipments—Geographic Division of Destination and of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by geographic division of destination									
		All divisions	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific ¹
TONS OF SHIPMENTS	(Thousands of tons)										
United States, total.....	12,787	100.0	5.0	19.9	37.2	9.1	8.4	3.6	5.8	1.6	9.4
Shipments originating from—											
New England.....	477	100.0	31.6	22.1	21.4	4.7	7.8	5.7	3.8	.1	2.8
Middle Atlantic.....	2,553	100.0	10.4	52.5	19.2	2.5	10.9	1.4	1.2	.1	1.8
East North Central.....	5,768	100.0	2.1	10.1	59.5	11.4	5.5	4.5	3.7	.6	2.6
West North Central.....	943	100.0	2.2	11.3	46.8	27.1	2.7	.8	5.1	1.0	3.0
South Atlantic.....	908	100.0	5.1	36.8	11.4	6.1	32.1	6.0	1.5	—	1.0
East South Central.....	304	100.0	5.1	10.7	34.9	5.9	21.3	10.3	5.3	.8	5.7
West South Central.....	406	100.0	.8	.9	1.8	1.9	13.0	4.7	75.9	.9	.1
Mountain.....	1,428	100.0	1.0	2.7	4.6	6.0	1.2	1.5	6.3	11.2	65.5
Pacific ²											
TON-MILES	(Millions of ton-miles)										
United States, total.....	4,655	100.0	4.9	14.0	24.1	12.8	10.6	5.1	10.5	3.0	15.0
Shipments originating from—											
New England.....	249	100.0	3.4	7.7	29.8	11.2	12.3	9.9	11.1	.6	14.0
Middle Atlantic.....	746	100.0	6.1	15.3	29.9	8.0	16.3	3.0	5.1	.7	15.6
East North Central.....	1,893	100.0	4.2	12.9	25.7	16.0	8.6	5.8	9.7	2.0	15.1
West North Central.....	357	100.0	5.8	26.8	30.1	9.1	5.3	.8	7.9	2.0	12.2
South Atlantic.....	261	100.0	6.1	19.8	18.3	14.0	18.6	9.9	4.2	.5	8.6
East South Central.....	186	100.0	8.2	13.9	30.7	5.6	14.3	3.0	4.8	1.5	18.0
West South Central.....	142	100.0	3.5	3.6	4.8	3.7	30.4	5.2	46.0	2.3	.5
Mountain.....	821	100.0	4.6	11.2	14.5	14.8	5.0	4.6	15.6	9.9	19.8
Pacific ²											

¹Shipments to Alaska and Hawaii from the 48 conterminous States and the District of Columbia are included.²No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 10. Tons and Ton-Miles of Shipments—Means of Transport and Employment Size of Establishment: 1963

Employment size of establishment	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS		(Thousands of tons)							
Total.....	12,787	100.0	27.1	55.4	15.0	0.2	0.9	1.2	0.2
Number of employees--									
Under 20 employees.....	479	100.0	-	35.9	62.2	-	-	1.8	.1
20 to 99 employees.....	2,504	100.0	23.3	57.7	17.4	.1	-	1.4	.1
100 to 499 employees.....	5,367	100.0	24.8	62.9	10.2	.3	.9	.7	.2
500 employees and over.....	4,437	100.0	34.9	46.9	14.4	.1	1.7	1.6	.4
TON-MILES		(Millions of ton-miles)							
Total.....	4,655	100.0	41.6	46.9	7.0	.4	2.3	1.7	.1
Number of employees--									
Under 20 employees.....	64	100.0	.1	73.7	21.6	.2	-	4.4	-
20 to 99 employees.....	740	100.0	30.1	58.3	8.5	.4	.1	2.5	.1
100 to 499 employees.....	2,251	100.0	41.5	49.0	4.9	.6	2.5	1.4	.1
500 employees and over.....	1,600	100.0	48.9	37.3	8.5	.2	3.2	1.7	.2

TABLE 11. Tons of Shipments—Distance Shipped and Employment Size of Establishment: 1963

Employment size of establishment	Tons (thousands)	Percent distribution by distance of shipment								
		All distances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
Total tons.....	12,787	100.0	31.3	14.7	15.9	7.2	6.7	17.3	2.8	4.1
Number of employees--										
Under 20 employees.....	479	100.0	74.0	12.1	3.3	2.9	1.5	4.3	.8	1.1
20 to 99 employees.....	2,504	100.0	33.2	13.3	19.4	4.6	11.6	14.2	2.1	1.6
100 to 499 employees.....	5,367	100.0	27.3	14.4	17.1	6.7	6.0	18.9	3.7	5.9
500 employees and over.....	4,437	100.0	30.7	16.1	13.8	9.8	5.4	18.3	2.2	3.7

TABLE 12. **Tons of Shipments—Distance Shipped and Production Area of Origin: 1963**

Production Area of origin	Tons (thousands)	Percent distribution by distance of shipment							
		All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
TONS OF SHIPMENTS									
Total.....	12,787	100.0	31.3	14.7	15.9	13.9	17.3	2.8	4.1
Production Areas ¹ —									
1.....	242	100.0	32.0	13.1	5.5	6.4	22.4	13.7	6.9
2.....	188	100.0	34.4	14.4	4.2	5.0	35.3	2.0	4.7
3.....	273	100.0	43.4	28.2	7.5	7.0	11.5	.8	1.6
4.....	774	100.0	59.3	13.2	4.4	5.9	9.4	6.6	1.2
5.....	625	100.0	20.9	6.4	14.1	18.5	32.5	3.8	3.8
6.....	532	100.0	36.0	36.2	4.6	11.2	10.6	.6	.8
11.....	1,121	100.0	17.7	26.7	10.5	31.2	8.8	.9	4.2
12.....	723	100.0	6.7	9.9	34.5	22.1	21.6	4.4	.8
13.....	600	100.0	39.8	12.7	14.1	17.4	11.3	1.7	3.0
14.....	168	100.0	7.7	14.5	39.2	12.3	20.9	.7	4.7
15.....	2,257	100.0	25.9	14.7	22.9	15.8	18.0	.5	2.2
25.....	181	100.0	67.0	6.5	2.4	9.8	5.1	4.0	5.2
Balance of Production Areas.....	1,481	100.0	43.8	15.1	12.6	11.6	12.1	2.8	2.0
SMSA's outside Production Areas.	2,171	100.0	28.5	6.0	19.6	7.6	22.1	4.1	12.1
Balance of United States.....	1,451	100.0	33.9	16.5	13.3	11.9	20.0	2.3	2.1

¹For description of Production Areas, see map in appendix C.TABLE 13. **Tons and Ton-Miles of Shipments—Area of Destination and of Origin: 1963**

Area of origin	Tons and ton-miles	Percent distribution by area of destination			
		All areas of destination	Production Areas	SMSA's outside Production Areas	Areas outside SMSA's
TONS OF SHIPMENTS	(Thousands of tons)				
United States, total.....	12,787	100.0	57.6	20.1	22.3
In Production Areas.....	9,165	100.0	59.5	18.3	22.2
In SMSA's outside Production Areas.....	2,171	100.0	53.9	27.2	18.9
Outside of SMSA's.....	1,451	100.0	50.9	20.8	28.3
TON-MILES	(Millions of ton- miles)				
United States, total.....	4,655	100.0	53.9	26.0	20.1
In Production Areas.....	2,992	100.0	52.9	25.7	21.4
In SMSA's outside Production Areas.....	1,183	100.0	56.9	27.9	15.2
Outside of SMSA's.....	480	100.0	52.4	23.2	24.4

Shipper Group 18

Industrial Machinery, Except Electrical

Data for Shipper Group 18 are based on a probability sample of 49,010 shipments reported by 409 establishments. The shipper group has been divided into three subgroups which can be closely related to industries classified in the Standard Industrial Classification (SIC). (This is the system of industrial classification developed over a period of years by experts on classification in government and private industry under the guidance of the Bureau of the Budget.) The subgroup and related SIC industries are as follows:

Shipper Subgroup 181.—Metalworking machinery and equipment

- SIC 3541.—Machine tools, metal cutting types
- SIC 3542.—Machine tools, metal forming types
- SIC 3544.—Special dies and tools, die sets, jigs and fixtures
- SIC 3545.—Machine tool accessories and measuring devices
- SIC 3548.—Metalworking machinery, except machine tools
- SIC 3565.—Industrial patterns

Shipper Subgroup 182.—Special industry machinery

- SIC 3551.—Food products machinery
- SIC 3552.—Textile machinery
- SIC 3553.—Woodworking machinery
- SIC 3554.—Paper industries machinery
- SIC 3555.—Printing trades machinery and equipment
- SIC 3559.—Special industry machinery, n.e.c.

Shipper Subgroup 183.—General industrial machinery and equipment

- SIC 3561.—Pumps, air and gas compressors, and pumping equipment
- SIC 3562.—Ball and roller bearings
- SIC 3564.—Blowers, exhaust and ventilating fans
- SIC 3566.—Mechanical power transmission equipment, except ball and roller bearings
- SIC 3567.—Industrial process furnaces and ovens
- SIC 3569.—General industrial machinery and equipment, n.e.c.
- SIC 3586.—Measuring and dispensing pumps

Commodities primary to these industries are classified in the following Transportation Commodity Classifications (TCC):¹

- TCC 354.—Metalworking machinery and equipment
- TCC 355.—Special industry machinery (except metalworking machinery)

TCC 356.—General industrial machinery and equipment

TCC 359.—Miscellaneous machinery and parts, except electrical

Data for these commodities are included in the Commodity Series chapter: Commodity Group 35, Machinery, Except Electrical.

Because the data are based on a probability sample, they are subject to sampling variability. The term "sampling variability" refers to the differences that would be expected between results of a sample survey and results that would have been obtained from a complete enumeration of plants and shipping documents. Estimates of sampling variability for Shipper Group 18 on total tons and on key items, are shown below:

Item	Estimated tons based on sample (thousands)	Sampling variability (percent)
Total tons.....	5,876	6.9
SHIPPER SUBGROUPS		
181 Metalworking machinery and equipment.....	2,106	10.1
182 Special industry machinery....	1,488	12.8
183 General industrial machinery and equipment.....	2,282	12.4
MEANS OF TRANSPORT		
Rail.....	1,233	12.0
Motor carrier.....	3,822	8.1
Private truck.....	484	12.8
Other.....	337	17.5
ORIGIN OF SHIPMENT (Geographic Division)		
New England.....	581	8.6
Middle Atlantic.....	1,344	13.7
East North Central.....	2,936	11.9
West North Central.....	134	41.7
South Atlantic.....	428	33.6
East and West South Central.....	278	51.8
Mountain and Pacific.....	175	50.9

¹See *Commodity Classification for Transportation Statistics, 1963, Executive Office of the President, Bureau of the Budget.*

TABLE 1. **Tons and Ton-Miles of Shipments—Means of Transport and Shipper Subgroup: 1963**

Shipper subgroup	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
18 Industrial machinery, except electrical.....	5,876	100.0	21.0	65.0	8.2	0.5	1.1	3.3	0.9
181 Metal working machinery and equipment.....	2,106	100.0	32.4	53.2	6.8	.3	2.7	4.2	.4
182 Special industry machinery.....	1,488	100.0	16.8	71.0	8.5	.3	.4	2.6	.4
183 General industrial machinery and equipment.....	2,282	100.0	13.2	72.1	9.4	.7	.1	2.9	1.6
TON-MILES	(Millions of ton-miles)								
18 Industrial machinery, except electrical.....	2,803	100.0	25.4	62.2	4.0	.9	.3	6.3	.9
181 Metal working machinery and equipment.....	805	100.0	32.7	52.8	3.6	.7	.8	8.9	.5
182 Special industry machinery.....	738	100.0	27.8	62.7	3.6	.6	.1	5.1	.1
183 General industrial machinery and equipment.....	1,260	100.0	19.2	68.0	4.6	1.2	.2	5.3	1.5

TABLE 2. **Tons of Shipments—Means of Transport and Distance Shipped: 1963**

Distance shipped ¹	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
All distances.....	5,876	100.0	21.0	65.0	8.2	0.5	1.1	3.3	0.9
Under 50 miles.....	628	100.0	17.0	58.3	21.6	-	1.2	1.7	.2
50 to 99 miles.....	576	100.0	10.0	60.8	18.6	-	8.6	1.3	.7
100 to 199 miles.....	877	100.0	19.0	67.8	10.7	.1	.4	1.2	.8
200 to 299 miles.....	790	100.0	28.5	64.0	4.6	.1	-	2.1	.7
300 to 399 miles.....	633	100.0	22.8	72.4	2.3	.1	-	1.2	1.2
400 to 499 miles.....	359	100.0	7.2	81.6	5.1	1.0	.3	3.2	1.6
500 to 599 miles.....	366	100.0	31.4	57.0	6.4	.8	-	3.2	1.2
600 to 799 miles.....	665	100.0	11.3	79.2	3.8	1.0	.2	3.5	1.0
800 to 999 miles.....	238	100.0	14.0	70.5	3.8	1.7	.1	8.1	1.8
1,000 to 1,199 miles.....	164	100.0	34.6	44.9	3.1	.8	.2	16.1	.3
1,200 to 1,499 miles.....	221	100.0	60.6	31.3	3.3	.6	.6	3.2	.4
1,500 to 1,999 miles.....	236	100.0	18.9	67.7	2.7	.7	.1	8.9	1.0
2,000 miles and over.....	123	100.0	39.6	40.4	1.1	2.1	.2	16.5	.1

NOTE: Percent distributions by ton-miles are about the same as those for tons because data are grouped in mileage blocks.

¹Distances of shipments to foreign destinations are calculated only to the American port of exit.

TABLE 3. **Tons and Ton-Miles of Shipments—Means of Transport and Weight: 1963**

Weight	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
Total.....	14,432	100.0	23.0	64.0	7.5	0.5	1.3	2.6	1.1
Shipments—									
Under 1,000 pounds.....	600	100.0	1.8	78.5	5.1	1.8	.2	9.9	2.7
Under 50 pounds.....	40	100.0	1.0	22.4	3.2	6.2	—	66.4	.8
50 to 99 pounds.....	48	100.0	1.4	68.8	2.7	3.7	—	22.4	1.0
100 to 199 pounds.....	79	100.0	1.1	83.4	4.5	2.7	.1	7.3	.9
200 to 499 pounds.....	199	100.0	1.5	82.8	5.8	1.5	.2	5.1	3.1
500 to 999 pounds.....	234	100.0	2.5	84.8	5.5	.7	.2	2.6	3.7
1,000 to 9,999 pounds.....	1,190	100.0	2.4	80.0	11.2	.8	.3	3.5	1.8
1,000 to 1,999 pounds.....	295	100.0	2.0	85.2	4.2	.9	.5	2.7	4.5
2,000 to 9,999 pounds.....	895	100.0	2.5	78.4	13.5	.7	.3	3.7	.9
10,000 to 29,999 pounds.....	867	100.0	12.8	75.1	9.8	—	.4	1.3	.6
30,000 pounds and over.....	1,775	100.0	49.1	43.0	4.8	—	2.7	.1	.3
TON-MILES	(Millions of ton-miles)								
Total.....	12,107	100.0	26.7	62.9	3.6	.8	.3	4.6	1.1
Shipments—									
Under 1,000 pounds.....	325	100.0	4.8	74.7	2.1	3.5	.3	11.8	2.8
Under 50 pounds.....	22	100.0	1.6	22.0	1.5	10.1	—	64.1	.7
50 to 99 pounds.....	26	100.0	2.9	67.5	.6	5.4	—	23.1	.5
100 to 199 pounds.....	42	100.0	2.0	80.2	.9	4.8	.1	11.1	.9
200 to 499 pounds.....	111	100.0	3.5	78.3	3.0	3.3	.3	7.9	3.7
500 to 999 pounds.....	124	100.0	7.8	80.3	2.3	1.6	.6	3.9	3.5
1,000 to 9,999 pounds.....	610	100.0	5.1	78.1	5.7	.9	.3	8.0	1.9
1,000 to 1,999 pounds.....	161	100.0	4.7	82.8	1.6	.9	.7	5.1	4.2
2,000 to 9,999 pounds.....	449	100.0	5.2	76.4	7.1	.9	.2	9.1	1.1
10,000 to 29,999 pounds.....	367	100.0	23.2	67.7	6.4	—	.1	2.1	.5
30,000 pounds and over.....	805	100.0	53.6	44.2	1.3	—	.5	.2	.2

NOTE: Because of rounding, detail may not add to total.

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 4. Tons of Shipments—Means of Transport,
Distance Shipped, and Weight: 1963

Distance and weight	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS									
Total.....	14,432	100.0	23.0	64.0	7.5	0.5	1.3	2.6	1.1
Under 200 miles.....	1,640	100.0	18.0	62.5	14.2	-	3.2	1.4	.7
Under 1,000 pounds.....	172	100.0	.3	76.9	12.8	.3	.1	7.7	1.9
1,000 pounds and over.....	1,468	100.0	20.0	60.9	14.3	-	3.6	.6	.6
200 to 399 miles.....	958	100.0	28.7	64.5	3.9	.2	-	1.4	1.3
Under 1,000 pounds.....	134	100.0	.8	86.7	2.2	1.1	-	7.2	2.0
1,000 pounds and over.....	824	100.0	33.2	61.0	4.2	-	-	.4	1.2
400 miles and over.....	1,834	100.0	24.6	65.0	3.5	1.0	.2	4.3	1.4
Under 1,000 pounds.....	294	100.0	3.2	75.7	1.9	3.0	.3	12.4	3.5
1,000 pounds and over.....	1,540	100.0	28.7	63.1	3.8	.6	.1	2.7	1.0

NOTE: Because of rounding, detail may not add to total.

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 5. Tons and Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons and ton-miles	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
	TONS OF SHIPMENTS	(Thousands of tons)								
	Total products shipped.....	5,876	100.0	21.0	65.0	8.2	0.5	1.1	3.3	0.9
	Total primary commodities ¹ ..	4,350	100.0	20.2	66.4	7.3	.5	1.4	3.2	1.0
	Total other commodities ²	1,526	100.0	23.3	61.1	10.8	.4	.3	3.7	.4
	Selected Primary Commodities ³									
354	Metalworking machinery and equipment.....	1,094	100.0	38.8	51.8	4.6	.5	.1	3.6	.6
3541	Machine tools, metal cutting types.....	133	100.0	5.5	82.5	6.5	.3	-	4.9	.3
3542	Machine tools, metal forming types.....	362	100.0	63.4	33.0	2.0	-	.4	.8	.4
3544	Special dies and tools, die sets, jigs, and fixtures and industrial molds and patterns.	155	100.0	.2	80.9	13.8	2.3	-	2.8	-
3545	Machine tool accessories, measuring tools and measuring devices.....	38	100.0	14.5	56.7	.4	1.5	-	26.4	.5
3548	Metalworking machinery (exc. machine tools).....	391	100.0	46.6	45.1	3.3	-	-	4.0	1.0
355	Special industry machinery (exc. metalworking machinery).....	970	100.0	18.5	70.0	8.1	.2	.1	3.0	.1
3552	Textile machinery.....	285	100.0	13.5	70.4	15.0	.1	-	1.0	-
3555	Printing trades machinery and equipment.....	35	100.0	8.0	76.6	4.0	.3	.2	10.9	-
3559	Miscellaneous special industry machinery.....	275	100.0	10.5	81.8	2.7	.3	.1	4.5	.1
356	General industrial machinery and equipment.....	1,510	100.0	5.7	76.3	11.5	.5	.3	3.3	2.4
3561	Pumps, air and gas compressors, and measuring and dispensing pumps, also pumping equipment.	521	100.0	4.4	88.2	4.0	.4	.3	2.2	.5
3562	Ball and roller bearings.....	175	100.0	4.5	59.1	34.7	.3	-	1.3	.1
3566	Mechanical power transmission equipment, except ball and roller bearings.....	528	100.0	5.7	68.3	13.2	.7	-	5.7	6.4
359	Miscellaneous machinery and parts (exc. electrical).....	767	100.0	24.2	63.6	1.9	.8	6.9	2.4	.2
	TON-MILES	(Millions of ton-miles)								
	Total.....	2,803	100.0	25.4	62.2	4.0	.9	.3	6.3	.9
	Total primary commodities ¹ ..	2,142	100.0	24.1	64.2	3.5	.9	.4	5.8	1.1
	Total other commodities ²	661	100.0	29.5	55.6	5.7	.9	.1	8.0	.2
	Selected Primary Commodities ³									
354	Metalworking machinery and equipment.....	455	100.0	40.7	49.0	1.9	.9	.4	6.6	.5
3541	Machine tools, metal cutting types.....	63	100.0	10.2	74.2	.8	1.0	-	13.4	.4
3542	Machine tools, metal forming types.....	160	100.0	60.1	36.1	.8	.1	1.2	1.3	.4
3544	Special dies and tools, die sets, jigs, and fixtures and industrial molds and patterns.	34	100.0	-	84.7	5.6	7.4	-	2.3	-
3545	Machine tool accessories, measuring tools and measuring devices.....	30	100.0	5.8	72.2	.1	2.8	-	19.0	.1
3548	Metalworking machinery (exc. machine tools).....	166	100.0	49.1	39.1	3.0	.1	-	7.8	.9

See footnotes at end of table.

TABLE 5. Tons and Ton-Miles of Shipments—Means of Transport and Commodity: 1963—Continued

TCC code	Commodity	Tons and ton-miles	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
	TON-MILES	(Millions of ton-miles)								
355	Special industry machinery (exc. metalworking machinery).....	511	100.0	33.4	58.0	2.7	0.3	0.1	5.5	-
3552	Textile machinery.....	124	100.0	29.0	62.8	7.3	.1	-	.8	-
3555	Printing trades machinery and equipment.....	21	100.0	11.4	74.0	.1	.3	-	14.2	-
3559	Miscellaneous special industry machinery.....	140	100.0	18.9	73.5	.8	.7	.2	5.8	0.1
356	General industrial machinery and equipment.....	832	100.0	7.2	77.2	6.0	.9	.3	6.1	2.3
3561	Pumps, air and gas compressors, and measuring and dispensing pumps, also pumping equipment.	396	100.0	6.2	85.7	3.5	.6	.4	3.3	.3
3562	Ball and roller bearings.....	58	100.0	8.5	80.3	7.7	.6	-	2.7	.2
3566	Mechanical power transmission equipment, except ball and roller bearings.....	241	100.0	8.4	60.1	11.2	1.0	-	12.0	7.3
359	Miscellaneous machinery and parts (exc. electrical).....	340	100.0	29.3	62.8	.8	1.4	1.3	4.1	.3

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 354, 355, 356, and 359.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 6. Tons of Shipments—Distance Shipped and
Commodity: 1963

TCC code	Commodity	Tons (thousands)	Percent distribution by distance of shipment								
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1 500 miles or over
	Total products shipped.	5,876	100.0	20.5	14.9	13.4	10.8	6.1	21.6	6.6	6.1
	Total primary com- modities ¹	4,350	100.0	17.8	13.9	15.1	12.1	5.2	24.0	4.9	7.0
	Total other com- modities ²	1,526	100.0	28.0	17.8	8.7	7.1	8.6	14.9	11.3	3.6
	Selected Primary Commodities ³										
354	Metalworking machinery and equipment.....	1,094	100.0	15.9	13.4	20.7	18.0	3.6	20.2	3.9	4.3
3541	Machine tools, metal cutting types.....	133	100.0	21.8	12.6	11.6	11.4	5.8	25.9	5.9	5.0
3542	Machine tools, metal forming types.....	362	100.0	5.7	12.3	26.0	12.8	3.7	33.1	5.6	.8
3544	Special dies and tools, die sets, jigs, and fixtures and industrial molds and patterns.....	155	100.0	35.2	21.7	13.8	15.2	1.5	11.4	.5	.7
3545	Machine tool accessories, measuring tools and measuring devices.....	38	100.0	5.5	6.4	9.5	21.1	7.7	23.1	4.4	22.3
3548	Metalworking machinery (exc. machine tools)....	391	100.0	16.3	12.2	21.3	26.5	3.3	10.1	3.2	7.1
355	Special industry machinery (exc. metalworking machinery).....	970	100.0	21.2	11.2	14.0	13.2	3.5	24.1	4.5	8.3
3552	Textile machinery.....	285	100.0	29.4	15.5	5.2	3.1	1.6	38.9	4.5	1.8
3555	Printing trades machinery and equipment.....	35	100.0	12.9	8.5	17.7	13.3	2.8	31.6	3.3	9.9
3559	Miscellaneous special industry machinery.....	275	100.0	17.9	15.7	20.1	5.8	9.0	18.6	4.7	8.2
356	General industrial machinery and equipment...	1,510	100.0	15.0	14.7	11.9	10.5	6.8	25.4	6.4	9.3
3561	Pumps, air and gas com- pressors, and measuring and dispensing pumps, also pumping equipment..	521	100.0	7.5	11.8	9.2	8.1	5.0	32.4	7.1	18.9
3562	Ball and roller bearings.	175	100.0	38.5	11.8	6.7	9.9	9.6	19.8	1.7	2.0
3566	Mechanical power trans- mission equipment, except ball and roller bearings.....	528	100.0	12.9	19.4	16.0	11.1	7.2	20.1	9.7	3.6
359	Miscellaneous machinery and parts (exc. electrical)...	767	100.0	21.8	16.6	14.7	5.2	6.7	26.6	3.7	4.7

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 354, 355, 356, and 359.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 7. Tons of Shipments—Means of Transport, Geographic Division of Origin, and Distance Shipped: 1963

Geographic division and distance	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
United States, total.....	5,876	100.0	21.0	65.0	8.2	0.5	1.1	3.3	0.9
Under 200 miles.....	2,081	100.0	15.9	62.9	16.2	.1	2.9	1.4	.6
200 to 399 miles.....	1,423	100.0	26.0	67.7	3.6	.1	-	1.7	.9
400 to 599 miles.....	725	100.0	19.4	69.3	5.7	.9	.1	3.2	1.4
600 to 999 miles.....	903	100.0	12.0	77.0	3.8	1.2	.1	4.7	1.2
1,000 miles and over.....	744	100.0	38.1	47.5	2.7	.9	.3	10.0	.5
New England and Middle Atlantic.....	1,925	100.0	29.4	60.2	3.0	.3	3.2	3.4	.5
Under 200 miles.....	798	100.0	28.4	57.6	4.7	.1	7.6	1.1	.5
200 to 399 miles.....	498	100.0	28.6	67.2	1.2	.1	-	2.3	.6
400 to 599 miles.....	177	100.0	28.2	65.8	2.9	.3	-	2.4	.4
600 to 999 miles.....	245	100.0	21.6	68.8	2.8	.5	-	5.8	.5
1,000 miles and over.....	207	100.0	45.9	38.9	1.4	1.1	.1	12.6	-
East North Central and West North Central.....	3,070	100.0	19.9	64.4	10.4	.5	-	3.5	1.3
Under 200 miles.....	977	100.0	8.9	66.2	23.0	-	-	1.1	.8
200 to 399 miles.....	731	100.0	28.7	63.8	4.7	.2	-	1.2	1.4
400 to 599 miles.....	456	100.0	19.7	66.1	6.9	1.3	.1	3.8	2.1
600 to 999 miles.....	496	100.0	10.0	77.7	3.6	1.2	.2	5.4	1.9
1,000 miles and over.....	410	100.0	42.8	42.4	2.4	.6	-	11.0	.8
South Atlantic, East South Central and West South Central.....	706	100.0	7.7	80.4	9.6	.1	.4	1.6	.2
Under 200 miles.....	259	100.0	6.8	72.5	19.2	-	-	1.3	.2
200 to 399 miles.....	155	100.0	11.0	83.0	4.1	-	.1	1.8	-
400 miles and over.....	292	100.0	6.7	86.3	4.0	.3	.8	1.7	.2
Mountain and Pacific ¹	175	100.0	.1	68.2	22.9	2.9	.3	5.5	.1

¹No data were obtained on shipments originating in Alaska and Hawaii. Insufficient number of observations to distribute by mileage block.

CENSUS GEOGRAPHIC DIVISIONS

New England—Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut
 Middle Atlantic—New York, New Jersey, Pennsylvania
 East North Central—Ohio, Indiana, Illinois, Michigan, Wisconsin
 West North Central—Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, Kansas
 South Atlantic—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida
 East South Central—Kentucky, Tennessee, Alabama, Mississippi
 West South Central—Arkansas, Louisiana, Oklahoma, Texas
 Mountain—Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada
 Pacific—Washington, Oregon, California, Alaska, Hawaii

TABLE 8. **Tons and Ton-Miles of Shipments—Means of Transport and Geographic Division of Origin: 1963**

Geographic division of origin	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
United States, total.....	5,876	100.0	21.0	65.0	8.2	0.5	1.1	3.3	0.9
Shipments originating from—									
New England.....	581	100.0	20.8	58.1	5.9	.4	9.1	5.0	.7
Middle Atlantic.....	1,344	100.0	33.2	61.2	1.8	.2	.6	2.6	.4
East North Central.....	2,936	100.0	20.8	63.5	10.3	.5	.1	3.5	1.3
West North Central.....	134	100.0	2.1	80.1	12.0	.7	-	4.9	.2
South Atlantic.....	428	100.0	9.7	75.6	12.2	.1	.1	2.1	.2
East South Central.....	278	100.0	4.6	87.9	5.7	.1	.8	.7	.2
West South Central.....									
Mountain.....	175	100.0	.1	68.1	23.0	2.9	.3	5.5	.1
Pacific ¹									
TON-MILES	(Millions of ton-miles)								
United States, total.....	2,803	100.0	25.4	62.2	4.0	.9	.3	6.3	.9
Shipments originating from—									
New England.....	297	100.0	33.3	53.4	2.8	.8	1.6	7.8	.3
Middle Atlantic.....	567	100.0	36.4	53.3	1.5	.6	.1	7.8	.3
East North Central.....	1,395	100.0	26.7	60.1	4.2	.8	.1	6.6	1.5
West North Central.....	87	100.0	1.5	80.6	10.5	.8	-	6.4	.2
South Atlantic.....	161	100.0	10.4	81.4	3.8	.4	.4	3.4	.2
East South Central.....	149	100.0	10.0	82.3	4.6	.2	1.9	.6	.4
West South Central.....									
Mountain.....	147	100.0	.1	82.3	10.3	3.8	.2	3.3	-
Pacific ¹									

¹No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 9. Tons and Ton-Miles of Shipments—Geographic Division of Destination and of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by geographic division of destination									
		All divisions	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific ¹
TONS OF SHIPMENTS	(Thousands of tons)										
United States, total.....	5,876	100.0	5.1	24.9	33.6	4.4	13.5	4.0	6.6	1.6	6.3
Shipments originating from—											
New England.....	581	100.0	23.5	27.7	23.6	1.9	14.2	1.3	4.2	.4	3.2
Middle Atlantic.....	1,344	100.0	3.3	41.9	29.0	2.3	10.3	2.9	4.1	1.4	4.8
East North Central.....	2,936	100.0	2.8	19.6	44.6	4.9	11.2	3.6	6.7	1.3	5.3
West North Central.....	134	100.0	2.4	17.1	31.7	11.1	7.7	3.6	13.2	7.2	6.0
South Atlantic.....	428	100.0	6.8	27.9	13.6	.8	39.5	3.0	6.4	.4	1.6
East South Central.....	278	100.0	.9	5.1	6.9	17.2	19.9	20.9	18.0	1.9	9.2
West South Central.....		100.0	.6	6.0	7.9	4.1	6.7	1.8	9.4	11.1	52.4
Mountain.....	175	100.0									
Pacific ²		100.0									
TON-MILES	(Millions of ton-miles)										
United States, total.....	2,803	100.0	3.9	16.8	18.5	4.9	15.1	3.5	12.9	4.0	20.4
Shipments originating from—											
New England.....	297	100.0	3.0	9.2	30.7	4.0	19.8	2.3	13.3	1.6	16.1
Middle Atlantic.....	567	100.0	1.8	12.2	24.1	4.7	8.0	4.1	13.2	5.9	26.0
East North Central.....	1,395	100.0	4.5	20.1	14.2	4.1	17.3	3.0	12.6	3.5	20.7
West North Central.....	87	100.0	4.0	24.5	19.8	3.8	10.8	4.1	11.1	7.8	14.1
South Atlantic.....	161	100.0	12.3	21.4	21.5	2.3	13.6	2.6	14.5	1.7	10.1
East South Central.....	149	100.0	2.2	8.1	9.5	17.1	15.2	9.2	10.4	2.8	25.5
West South Central.....		100.0									
Mountain.....	147	100.0									
Pacific ²		100.0									

¹Shipments to Alaska and Hawaii from the 48 conterminous States and the District of Columbia are included.

²No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 10. **Tons and Ton-Miles of Shipments—Means of Transport and Employment Size of Establishment: 1963**

Employment size of establishment	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
Total.....	5,876	100.0	21.0	65.0	8.2	0.5	1.1	3.3	0.9
Number of employees—									
Under 20.....	90	100.0	1.3	83.1	10.0	.4	.3	4.7	.2
20 to 99.....	724	100.0	.7	82.9	12.2	.2	1.0	2.5	.5
100 to 499.....	2,401	100.0	11.5	72.1	10.2	.6	-	3.9	1.7
500 and over.....	2,661	100.0	35.8	53.3	5.3	.4	2.1	2.9	.2
TON-MILES	(Millions of ton-miles)								
Total.....	2,803	100.0	25.4	62.2	4.0	.9	.3	6.3	.9
Number of employees—									
Under 20.....	51	100.0	5.9	82.8	1.0	1.1	1.2	7.5	.5
20 to 99.....	279	100.0	1.4	89.2	4.0	.5	1.3	3.4	.2
100 to 499.....	1,244	100.0	14.9	70.0	5.8	.9	.1	6.6	1.7
500 and over.....	1,229	100.0	42.2	47.3	2.4	.9	.4	6.6	.2

TABLE 11. **Tons of Shipments—Distance Shipped and Employment Size of Establishment: 1963**

Employment size of establishment	Tons (thousands)	Percent distribution by distance of shipment								
		All distances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
Total tons.....	5,876	100.0	20.5	14.9	13.4	10.8	6.1	21.6	6.6	6.1
Number of employees—										
Under 20.....	90	100.0	32.8	15.3	8.4	4.0	1.0	14.4	13.7	10.4
20 to 99.....	724	100.0	27.0	13.3	15.9	11.1	6.5	19.8	2.3	4.1
100 to 499.....	2,401	100.0	16.0	15.4	10.3	11.0	7.3	27.2	5.2	7.6
500 and over.....	2,661	100.0	22.3	14.9	15.8	10.7	5.1	17.4	8.7	5.1

TABLE 12. Tons of Shipments—Distance Shipped and
Production Area of Origin: 1963

Production Area of origin	Tons (thousands)	Percent distribution by distance of shipment							
		All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
TONS OF SHIPMENTS									
Total.....	5,876	100.0	20.5	14.9	13.4	16.9	21.6	6.6	6.1
Production Areas ¹ —									
1.....	216	100.0	23.9	14.5	3.8	5.8	36.5	5.4	10.1
2.....	211	100.0	36.5	9.9	2.1	5.9	41.2	2.1	2.3
3.....	34	100.0	29.6	21.5	7.0	6.8	19.4	11.3	4.4
4.....	134	100.0	26.0	10.9	7.0	15.7	30.6	3.3	6.5
5.....	234	100.0	17.8	2.4	25.2	39.2	7.0	1.4	7.0
10.....	101	100.0	6.4	1.3	49.9	11.6	9.2	5.2	16.4
11.....	255	100.0	34.8	19.5	9.3	24.7	6.5	2.0	3.2
13.....	286	100.0	36.0	17.6	9.2	28.2	4.4	.6	4.0
14.....	382	100.0	10.8	4.7	12.8	19.3	41.6	8.0	2.8
15.....	487	100.0	9.8	10.4	34.0	17.1	22.5	1.0	5.2
16.....	317	100.0	10.2	5.8	8.7	12.8	19.5	41.4	1.6
20.....	92	100.0	1.5	2.5	15.1	23.9	27.9	22.1	7.0
25.....	151	100.0	22.3	4.6	1.2	20.9	13.7	12.5	24.8
Balance of Production Areas.....	697	100.0	22.9	20.5	12.3	21.0	14.2	4.1	5.0
SMSA's Outside Production Areas.	859	100.0	18.3	17.5	9.1	10.1	27.4	7.2	10.4
Balance of United States.....	1,420	100.0	22.4	21.5	13.0	14.9	20.5	3.4	4.3

¹For description of Production Areas, see map in appendix C.

TABLE 13. Tons and Ton-Miles of Shipments—Area of Destination
and of Origin: 1963

Area of origin	Tons and ton-miles	Percent distribution by area of destination			
		All areas of destination	Production Areas	SMSA's outside Production Areas	Areas outside SMSA's
TONS OF SHIPMENTS	(Thousands of tons)				
United States, total.....	5,876	100.0	53.8	19.9	26.3
In Production Areas.....	3,597	100.0	55.3	20.3	24.4
In SMSA's outside Production Areas.....	859	100.0	41.7	24.0	34.3
Outside of SMSA's.....	1,420	100.0	57.4	16.4	26.2
TON-MILES	(Millions of ton- miles)				
United States, total.....	2,803	100.0	50.3	26.7	23.0
In Production Areas.....	1,758	100.0	47.1	30.7	22.2
In SMSA's outside Production Areas.....	476	100.0	59.3	20.2	20.5
Outside of SMSA's.....	569	100.0	52.7	19.6	27.7

Shipper Group 19

Machinery, Except Electrical and Industrial

Data for Shipper Group 19 are based on a probability sample of 44,972 shipments reported by 367 establishments. The shipper group has been divided into five subgroups which can be closely related to industries classified in the Standard Industrial Classification (SIC). (This is the system of industrial classification developed over a period of years by experts on classification in government and private industry under the guidance of the Bureau of the Budget.) The subgroup and related SIC industries are as follows:

Shipper Subgroup 191.—Engines and turbines

SIC 3511.—Steam engines; steam, gas, and hydraulic turbines; and steam, gas, and hydraulic turbine generator set units

SIC 3519.—Internal combustion engines, n.e.c.

Shipper Subgroup 192.—Farm machinery and equipment

SIC 3522.—Farm machinery and equipment

Shipper Subgroup 193.—Construction, mining, and materials handling equipment

SIC 3531.—Construction machinery and equipment

SIC 3532.—Mining machinery and equipment, except oil field machinery and equipment

SIC 3533.—Oil field machinery and equipment

SIC 3534.—Elevators and moving stairways

SIC 3535.—Conveyors and conveying equipment

SIC 3536.—Hoists, industrial cranes, and monorail systems

SIC 3537.—Industrial trucks, tractors, trailers, and stackers

Shipper Subgroup 194.—Office and service industry machinery

SIC 3571.—Computing and accounting machines, including cash registers

SIC 3572.—Typewriters

SIC 3576.—Scales and balances, except laboratory

SIC 3579.—Office machines, n.e.c.

SIC 3581.—Automatic merchandising machines

SIC 3582.—Commercial laundry, dry cleaning, and pressing machines

SIC 3584.—Vacuum cleaners, industrial

SIC 3585.—Refrigerators; refrigeration machinery, except household; and complete air conditioning units

SIC 3589.—Service industry machines, n.e.c.

Shipper Subgroup 195.—Miscellaneous machinery and parts, except electric

SIC 3591.—Machine shops, jobbing and repair

SIC 3599.—Machinery and parts, except electrical, n.e.c.

Commodities primary to these industries are classified in the following Transportation Commodity Classifications (TCC):¹

TCC 351.—Engines and turbines

TCC 352.—Farm machinery and equipment

TCC 353.—Construction, mining, and materials handling machinery and equipment

TCC 357.—Office, computing, and accounting machines

TCC 358.—Service industry machines

TCC 359.—Miscellaneous machinery and parts (except electrical)

Data for these commodities are included in the Commodity Series chapter: Commodity Group 35, Machinery, Except Electrical.

Because the data are based on a probability sample, they are subject to sampling variability. The term "sampling variability" refers to the differences that would be expected between results of a sample survey and results that would have been obtained from a complete enumeration of plants and shipping documents. Estimates of sampling variability for Shipper Group 19 on total tons and on key items, are shown below:

Item	Estimated tons based on sample (thousands)	Sampling variability (percent)
Total tons.....	14,130	16.3
SHIPPER SUBGROUPS		
191 Engines and turbines.....	1,088	12.6
192 Farm machinery and equipment...	3,205	8.3
193 Construction, mining and materials handling equipment..	7,048	29.0
194 Office and service industry machinery.....	2,283	10.9
195 Miscellaneous machinery and parts, except electric.....	506	11.1
MEANS OF TRANSPORT		
Rail.....	5,233	30.0
Motor carrier.....	7,142	10.3
Private truck.....	1,375	9.5
Other.....	380	23.9
ORIGIN OF SHIPMENT (Geographic Division)		
New England.....	160	26.3
Middle Atlantic.....	1,681	13.3
East North Central.....	6,705	10.8
West North Central.....	4,140	52.5
South Atlantic and East South Central.....	477	30.4
West South Central.....	459	35.1
Mountain and Pacific.....	508	24.2

¹See *Commodity Classification for Transportation Statistics, 1963, Executive Office of the President, Bureau of the Budget.*

TABLE 1. Tons and Ton-Miles of Shipments—Means of Transport and Shipper Subgroup: 1963

Shipper subgroup	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
19 Machinery, except electrical and industrial.....	14,130	100.0	37.0	50.6	9.7	0.3	0.2	1.9	0.3
191 Engines and turbines.....	1,088	100.0	21.0	63.4	13.7	.4	-	1.5	-
192 Farm machinery and equipment...	3,205	100.0	35.2	45.9	15.0	.2	.3	3.0	.4
193 Construction, mining, and materials handling equipment.....	7,048	100.0	49.7	44.1	4.7	.1	.2	.9	.3
194 Office and service industry machinery.....	2,283	100.0	15.6	66.3	13.2	1.0	.6	3.2	.1
195 Miscellaneous machinery and parts, except electrical.....	506	100.0	3.0	71.0	22.0	.6	-	3.3	.1
TON-MILES	(Millions of ton-miles)								
19 Machinery, except electrical and industrial.....	8,678	100.0	51.5	40.0	4.5	.6	.6	2.6	.2
191 Engines and turbines.....	556	100.0	33.1	55.8	7.0	.9	-	3.2	-
192 Farm machinery and equipment...	1,520	100.0	49.0	38.0	10.0	.3	.4	1.9	.4
193 Construction, mining, and materials handling equipment.....	4,944	100.0	62.3	33.0	2.5	.1	.4	1.5	.2
194 Office and service industry machinery.....	1,391	100.0	31.1	54.1	4.1	2.4	1.5	6.6	.2
195 Miscellaneous machinery and parts, except electrical.....	267	100.0	10.8	74.3	8.2	1.3	-	5.3	.1

TABLE 2. Tons of Shipments—Means of Transport and Distance Shipped: 1963

Distance shipped ¹	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
All distances.....	14,130	100.0	37.0	50.6	9.7	0.3	0.2	1.9	0.3
Under 50 miles.....	835	100.0	21.3	50.1	25.6	.1	-	2.9	-
50 to 99 miles.....	957	100.0	7.4	60.5	27.3	-	-	4.8	-
100 to 199 miles.....	1,609	100.0	18.4	62.8	17.0	.2	-	1.3	.3
200 to 299 miles.....	1,514	100.0	22.0	63.9	11.6	.1	.2	1.1	1.1
300 to 399 miles.....	1,488	100.0	24.7	65.4	9.0	.3	-	.5	.1
400 to 499 miles.....	1,116	100.0	31.6	58.2	9.3	.2	-	.6	.1
500 to 599 miles.....	891	100.0	38.9	53.0	6.5	.3	-	1.0	.3
600 to 799 miles.....	1,696	100.0	49.7	44.6	4.0	.2	-	1.3	.2
800 to 999 miles.....	1,383	100.0	54.2	41.6	2.4	.1	.3	1.2	.2
1,000 to 1,199 miles.....	662	100.0	58.1	36.4	1.6	.8	.7	2.4	-
1,200 to 1,499 miles.....	505	100.0	65.0	25.1	4.3	.7	1.5	3.2	.2
1,500 to 1,999 miles.....	1,121	100.0	71.2	23.8	1.6	.3	1.0	2.1	-
2,000 miles and over.....	353	100.0	52.2	29.6	1.4	3.4	1.3	11.9	.2

NOTE: Percent distributions by ton-miles are about the same as those for tons because data are grouped in mileage blocks.

¹Distances of shipments to foreign destinations are calculated only to the American port of exit.

TABLE 3. Tons and Ton-Miles of Shipments—Means of Transport and Weight: 1963

Weight	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS		(Thousands of tons)							
Total.....	¹ 10,968	100.0	37.1	51.3	9.0	0.3	0.3	1.7	0.3
Shipments—									
Under 1,000 pounds.....	702	100.0	2.9	80.2	6.0	1.9	-	8.5	.5
Under 50 pounds.....	30	100.0	1.3	27.9	6.0	9.0	-	54.4	1.4
50 to 99 pounds.....	45	100.0	2.3	74.3	3.7	4.8	.4	13.8	.7
100 to 199 pounds.....	87	100.0	1.7	84.0	5.4	2.6	-	5.7	.6
200 to 499 pounds.....	234	100.0	4.0	82.2	5.3	1.5	-	6.5	.5
500 to 999 pounds.....	306	100.0	2.6	83.6	7.0	1.0	-	5.5	.3
1,000 to 9,999 pounds.....	1,790	100.0	3.8	71.0	17.9	.7	.6	5.7	.3
1,000 to 1,999 pounds.....	402	100.0	3.1	74.4	14.9	.6	-	6.4	.6
2,000 to 2,999 pounds.....	327	100.0	1.8	76.1	13.8	.5	.4	7.1	.3
3,000 to 4,999 pounds.....	396	100.0	2.6	73.7	18.0	.6	.3	4.6	.2
5,000 to 9,999 pounds.....	665	100.0	6.0	64.7	21.7	.9	1.3	5.1	.3
10,000 to 29,999 pounds.....	3,080	100.0	24.6	60.1	14.4	.3	.3	.2	.1
10,000 to 19,999 pounds.....	970	100.0	13.8	64.9	20.8	-	.1	.2	.2
20,000 to 29,999 pounds.....	2,110	100.0	29.6	57.9	11.5	.4	.4	.1	.1
30,000 pounds and over.....	5,396	100.0	59.8	36.0	3.3	-	.2	.3	.4
TON-MILES		(Millions of ton-miles)							
Total.....	¹ 6,720	100.0	52.1	40.2	4.3	.7	.7	1.8	.2
Shipments—									
Under 1,000 pounds.....	394	100.0	5.2	75.2	1.7	4.1	.1	12.9	.8
Under 50 pounds.....	18	100.0	2.3	22.9	1.0	15.7	-	56.6	1.5
50 to 99 pounds.....	26	100.0	3.2	68.1	1.4	9.7	.5	16.5	.6
100 to 199 pounds.....	51	100.0	3.9	79.5	1.0	4.7	.1	10.3	.5
200 to 499 pounds.....	131	100.0	7.1	77.3	1.0	2.8	-	11.4	.4
500 to 999 pounds.....	168	100.0	4.7	79.1	2.6	2.8	-	9.8	1.0
1,000 to 9,999 pounds.....	852	100.0	8.1	73.1	8.0	2.2	1.8	6.4	.4
1,000 to 1,999 pounds.....	198	100.0	7.3	77.5	5.2	1.7	.1	7.3	.9
2,000 to 2,999 pounds.....	157	100.0	3.9	80.1	6.0	1.7	1.3	6.9	.1
3,000 to 4,999 pounds.....	183	100.0	9.0	74.0	10.2	2.3	.6	3.8	.1
5,000 to 9,999 pounds.....	314	100.0	10.2	66.4	9.4	2.7	3.9	7.1	.3
10,000 to 29,999 pounds.....	1,452	100.0	36.1	53.0	9.3	.6	.7	.2	.1
10,000 to 19,999 pounds.....	413	100.0	24.1	59.7	15.1	.1	.2	.4	.4
20,000 to 29,999 pounds.....	1,039	100.0	40.8	50.1	7.1	.9	.9	.2	-
30,000 pounds and over.....	4,022	100.0	72.0	25.1	1.9	-	.5	.3	.2

NOTE: Because of rounding, detail may not add to total.

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 4. **Tons of Shipments—Means of Transport,
Distance Shipped, and Weight: 1963**

Distance and weight	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS									
Total.....	10,968	100.0	37.1	51.3	9.0	0.3	0.3	1.7	0.3
Under 200 miles.....	2,388	100.0	10.3	64.8	21.3	.1	-	3.3	.2
Under 1,000 pounds.....	185	100.0	.9	74.5	17.0	.4	.1	6.6	.5
1,000 to 9,999 pounds.....	612	100.0	.4	55.8	33.9	.3	.1	9.1	.4
10,000 pounds and over.....	1,591	100.0	15.2	67.2	16.9	-	-	.6	.1
200 to 399 miles.....	2,390	100.0	21.4	65.0	11.8	.2	.1	.7	.8
Under 1,000 pounds.....	182	100.0	1.2	89.0	4.0	.8	.1	4.5	.4
1,000 pounds and over.....	2,208	100.0	23.0	63.1	12.5	.1	.1	.4	.8
400 to 599 miles.....	1,609	100.0	39.1	54.7	5.1	.2	-	.7	.2
Under 1,000 pounds.....	97	100.0	1.0	89.1	1.3	1.8	-	6.5	.3
1,000 pounds and over.....	1,512	100.0	41.5	52.7	5.3	-	-	.3	.2
600 to 999 miles.....	2,555	100.0	53.5	42.1	2.7	.2	.1	1.1	.3
Under 1,000 pounds.....	127	100.0	6.3	79.8	.5	2.4	-	10.7	.3
1,000 pounds and over.....	2,428	100.0	55.9	40.1	2.8	.1	.2	.6	.3
1,000 miles and over.....	2,026	100.0	64.7	28.1	2.3	1.0	1.3	2.5	.1
Under 1,000 pounds.....	111	100.0	6.5	68.0	1.1	5.8	.1	17.4	1.1
1,000 pounds and over.....	1,915	100.0	68.1	25.8	2.4	.7	1.3	1.7	-

NOTE: Because of rounding, detail may not add to total.

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 5. Tons and Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons and ton-miles	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
	TONS OF SHIPMENTS	(Thousands of tons)								
	Total products shipped.....	14,130	100.0	37.0	50.6	9.7	0.3	0.2	1.9	0.3
	Total primary commodities ¹ ..	11,665	100.0	40.6	48.4	8.7	.3	.3	1.5	.2
	Total other commodities ²	2,465	100.0	20.3	60.2	14.8	.2	.1	3.9	.5
	Selected Primary Commodities ³									
351	Engines and turbines.....	993	100.0	18.3	62.5	17.1	.3	.3	1.5	-
3519	Miscellaneous internal combustion engines.....	835	100.0	14.4	64.2	19.0	.4	.4	1.6	-
352	Farm machinery and equipment.....	2,508	100.0	40.2	43.3	14.4	.2	-	1.5	.4
353	Construction, mining, and materials handling machinery and equipment	6,056	100.0	52.7	41.5	4.6	.1	.2	.8	.1
3531	Construction machinery and equipment.....	4,297	100.0	58.7	38.0	2.7	-	.1	.5	-
3533	Oil field machinery and equipment.....	108	100.0	4.6	78.8	14.6	1.6	-	.4	-
3537	Industrial trucks, tractors, trailers and stackers.....	844	100.0	31.9	59.6	8.0	-	-	.4	.1
357	Office, computing and accounting machines.....	306	100.0	13.8	69.8	.2	5.4	2.2	8.5	.1
3571	Computing and accounting machines and cash registers...	112	100.0	5.4	75.7	.2	13.7	-	5.0	-
3572	Typewriters and parts.....	92	100.0	12.8	72.9	-	.2	7.4	6.6	.1
358	Service industry machines.....	1,373	100.0	18.5	67.6	11.2	.1	.5	1.9	.2
3585	Refrigerators and refrigeration machinery (exc. household), and complete air conditioning units	1,043	100.0	22.7	62.1	12.9	.2	-	2.1	-
359	Miscellaneous machinery and parts (exc. electrical).....	368	100.0	8.3	73.5	11.1	1.5	.1	4.6	.9
	TON-MILES	(Millions of ton-miles)								
	Total.....	8,678	100.0	51.5	40.0	4.5	.6	.6	2.6	.2
	Total primary commodities ¹ ..	7,638	100.0	54.6	37.1	4.4	.6	.6	2.5	.2
	Total other commodities ²	1,040	100.0	28.3	61.7	5.5	.6	.1	3.5	.3
	Selected Primary Commodities ³									
351	Engines and turbines.....	486	100.0	31.3	53.4	9.7	.9	1.2	3.5	-
3519	Miscellaneous internal combustion engines.....	400	100.0	24.8	57.2	11.7	1.0	1.5	3.8	-
352	Farm machinery and equipment.....	1,247	100.0	54.9	33.3	9.3	.4	-	1.7	.4
353	Construction, mining, and materials handling machinery and equipment	4,571	100.0	63.7	31.6	2.6	.1	.5	1.4	.1
3531	Construction machinery and equipment.....	3,566	100.0	69.9	27.5	1.3	-	.2	1.1	-
3533	Oil field machinery and equipment.....	60	100.0	11.4	80.4	4.3	3.7	-	.2	-
3537	Industrial trucks, tractors, trailers and stackers.....	590	100.0	47.8	46.3	4.5	.1	-	1.0	.3

See footnotes at end of table.

TABLE 5. Tons and Ton-Miles of Shipments—Means of Transport and Commodity: 1963—Continued

TCC code	Commodity	Tons and ton-miles	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
		(Millions of ton-miles)								
357	Office, computing and accounting machines.....	256	100.0	23.1	51.3	-	10.5	4.2	10.9	-
3571	Computing and accounting machines and cash registers...	100	100.0	7.3	61.5	0.1	25.9	-	5.2	-
3572	Typewriters and parts.....	71	100.0	31.2	45.3	-	.3	15.1	8.0	0.1
358	Service industry machines.....	848	100.0	36.6	53.0	3.9	.2	1.2	4.9	.2
3585	Refrigerators and refrigeration machinery (exc. household), and complete air conditioning units	664	100.0	44.3	45.2	4.8	.2	-	5.5	-
359	Miscellaneous machinery and parts (exc. electrical).....	183	100.0	13.0	66.1	9.5	2.5	.1	8.4	.4

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 351, 352, 353, 357, 358, and 359.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 6. Tons of Shipments—Distance Shipped and
Commodity: 1963

TCC code	Commodity	Tons (thousands)	Percent distribution by distance of shipment								
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
	Total products shipped.	14,130	100.0	12.7	11.4	10.7	10.5	7.9	28.1	8.3	10.4
	Total primary com- modities ¹	11,665	100.0	10.9	9.3	9.5	10.4	8.3	31.5	8.7	11.4
	Total other com- modities ²	2,465	100.0	21.0	21.2	16.5	10.9	5.9	12.4	6.2	5.9
	Selected Primary Commodities ³										
351	Engines and turbines.....	993	100.0	18.9	16.7	11.5	15.9	4.2	21.3	4.0	7.5
3519	Miscellaneous internal combustion engines.....	835	100.0	19.2	19.1	12.2	10.6	3.9	24.1	3.7	7.2
352	Farm machinery and equip- ment.....	2,508	100.0	13.0	10.9	12.2	11.7	11.2	31.7	6.3	3.0
353	Construction, mining, and materials handling mach- inery and equipment.....	6,056	100.0	8.1	6.0	7.5	9.6	7.8	35.2	10.5	15.3
3531	Construction machinery and equipment.....	4,297	100.0	4.8	4.6	4.0	9.4	8.2	39.3	11.5	18.2
3533	Oil field machinery and equipment.....	108	100.0	16.0	17.8	13.8	8.1	9.4	7.8	20.8	6.3
3537	Industrial trucks, trac- tors, trailers and stackers.....	844	100.0	8.7	5.8	13.5	10.9	6.6	35.7	6.2	12.6
357	Office, computing and ac- counting machines.....	306	100.0	5.3	12.6	15.1	5.8	10.2	20.9	5.2	24.9
3571	Computing and accounting machines and cash registers.....	112	100.0	5.0	11.9	23.4	5.0	4.1	20.7	2.7	27.2
3572	Typewriters and parts....	92	100.0	7.0	21.8	1.9	1.8	18.5	18.5	5.1	25.4
358	Service industry machines..	1,373	100.0	12.7	13.3	10.0	8.3	9.1	26.4	10.3	9.9
3585	Refrigerators and refrig- eration machinery (exc. household), and complete air conditioning units..	1,043	100.0	11.8	14.9	9.1	7.2	10.0	25.3	10.2	11.5
359	Miscellaneous machinery and parts (exc. electrical)...	368	100.0	21.5	15.0	9.1	15.0	5.4	20.8	5.4	7.8

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 351, 352, 353, 357, 358, and 359.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 7. Tons of Shipments—Means of Transport, Geographic Division of Origin, and Distance Shipped: 1963

Geographic division and distance	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
United States, total.....	14,130	100.0	37.0	50.6	9.7	0.3	0.2	1.9	0.3
Under 200 miles.....	3,401	100.0	16.0	59.0	22.0	.1	-	2.7	.2
200 to 399 miles.....	3,002	100.0	23.4	64.6	10.3	.2	.1	.8	.6
400 to 599 miles.....	2,007	100.0	34.9	55.8	8.1	.2	-	.8	.2
600 to 999 miles.....	3,079	100.0	51.7	43.2	3.3	.2	.1	1.3	.2
1,000 miles and over.....	2,641	100.0	64.1	28.0	2.1	.9	1.1	3.7	.1
New England and Middle Atlantic.....	1,841	100.0	22.0	61.0	12.5	.4	1.0	3.0	.1
Under 200 miles.....	588	100.0	5.0	60.0	32.7	.6	.1	1.5	.1
200 to 399 miles.....	331	100.0	12.8	79.8	5.1	.1	.9	1.1	.2
400 to 599 miles.....	229	100.0	12.4	82.2	4.6	.2	-	.6	-
600 to 999 miles.....	254	100.0	30.3	62.6	1.6	.5	1.3	3.6	.1
1,000 miles and over.....	439	100.0	52.0	36.0	1.3	.6	2.7	7.4	-
East North Central and West North Central.....	10,845	100.0	42.7	46.7	8.2	.2	.1	1.9	.2
Under 200 miles.....	2,478	100.0	20.3	58.5	17.8	-	-	3.2	.2
200 to 399 miles.....	2,171	100.0	28.4	60.3	10.0	.1	-	.9	.3
400 to 599 miles.....	1,581	100.0	40.7	49.9	8.3	.2	-	.8	.1
600 to 999 miles.....	2,662	100.0	55.5	40.5	2.6	.1	-	1.1	.2
1,000 miles and over.....	1,953	100.0	71.5	22.9	1.3	.4	.6	3.2	.1
South Atlantic, East South Central and West South Central.....	936	100.0	15.6	64.5	17.9	.2	-	.5	1.3
Under 200 miles.....	224	100.0	5.6	58.2	35.3	-	-	.8	.1
200 to 399 miles.....	421	100.0	9.9	71.1	16.1	-	-	.3	2.6
400 to 599 miles.....	138	100.0	19.7	68.9	9.4	.1	-	1.0	.9
600 miles and over.....	153	100.0	41.8	51.1	5.4	1.2	-	.4	.1
Mountain and Pacific ¹	508	100.0	9.2	67.5	18.3	3.0	1.0	.7	.3
Under 200 miles.....	111	100.0	.4	67.2	31.5	.1	-	.8	-
200 to 999 miles.....	221	100.0	3.7	76.6	17.6	1.3	.1	.3	.4
1,000 miles and over.....	176	100.0	21.6	56.1	10.8	7.0	2.8	1.3	.4

¹No data were obtained on shipments originating in Alaska and Hawaii.

CENSUS GEOGRAPHIC DIVISIONS

New England—Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut
 Middle Atlantic—New York, New Jersey, Pennsylvania
 East North Central—Ohio, Indiana, Illinois, Michigan, Wisconsin
 West North Central—Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, Kansas
 South Atlantic—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida
 East South Central—Kentucky, Tennessee, Alabama, Mississippi
 West South Central—Arkansas, Louisiana, Oklahoma, Texas
 Mountain—Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada
 Pacific—Washington, Oregon, California, Alaska, Hawaii

TABLE 8. Tons and Ton-Miles of Shipments—Means of Transport and Geographic Division of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
United States, total.....	14,130	100.0	37.0	50.6	9.7	0.3	0.2	1.9	0.3
Shipments originating from—									
New England.....	160	100.0	12.5	72.1	6.1	.6	-	8.6	.1
Middle Atlantic.....	1,681	100.0	22.9	59.9	13.1	.4	1.1	2.5	.1
East North Central.....	6,705	100.0	38.8	51.0	8.0	.2	.1	1.7	.2
West North Central.....	4,140	100.0	49.1	39.8	8.4	.1	.2	2.2	.2
South Atlantic.....	477	100.0	20.7	63.6	14.5	.2	-	.7	.3
East South Central.....		100.0	10.2	65.2	21.5	.3	-	.4	2.4
West South Central.....	459	100.0	10.2	65.2	21.5	.3	-	.4	2.4
Mountain.....	508	100.0	9.2	67.5	18.3	3.0	1.0	.7	.3
Pacific ¹		100.0	9.2	67.5	18.3	3.0	1.0	.7	.3
TON-MILES	(Millions of ton-miles)								
United States, total.....	8,678	100.0	51.5	40.0	4.5	.6	.6	2.6	.2
Shipments originating from—									
New England.....	97	100.0	20.5	62.8	1.6	.9	-	14.1	.1
Middle Atlantic.....	1,096	100.0	40.8	47.2	3.6	.5	2.3	5.6	-
East North Central.....	3,495	100.0	52.2	40.4	3.5	.4	.2	3.2	.1
West North Central.....	3,155	100.0	63.1	31.3	4.1	.1	.3	1.0	.1
South Atlantic.....	207	100.0	32.3	58.0	8.4	.3	-	.7	.3
East South Central.....		100.0	22.3	61.6	13.4	.8	-	.3	1.6
West South Central.....	176	100.0	22.3	61.6	13.4	.8	-	.3	1.6
Mountain.....	452	100.0	18.4	59.3	13.0	6.6	1.2	1.1	.4
Pacific ¹		100.0	18.4	59.3	13.0	6.6	1.2	1.1	.4

¹No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 9. Tons and Ton-Miles of Shipments—Geographic Division of Destination and of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by geographic division of destination									
		All divisions	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific ¹
TONS OF SHIPMENTS	(Thousands of tons)										
United States, total.....	14,130	100.0	2.5	15.2	27.3	12.5	11.1	7.1	8.9	4.5	10.9
Shipments originating from—											
New England.....	160	100.0	20.7	35.7	16.9	4.4	5.6	4.3	4.5	1.1	6.8
Middle Atlantic.....	1,681	100.0	2.8	35.5	16.8	5.1	11.3	7.0	10.7	4.5	6.3
East North Central.....	6,705	100.0	2.3	14.6	39.1	12.3	9.0	5.7	6.6	3.2	7.2
West North Central.....	4,140	100.0	2.4	9.8	16.1	19.2	15.1	10.3	4.6	6.2	16.3
South Atlantic.....	477	100.0	1.1	12.1	36.9	3.3	24.7	10.2	7.3	.8	3.6
East South Central.....		100.0	.2	1.8	2.6	2.9	3.2	4.3	75.9	4.3	4.8
West South Central.....	459	100.0									
Mountain.....	508	100.0	1.8	8.0	13.0	5.8	2.1	.9	10.7	12.7	45.0
Pacific ²		100.0									
TON-MILES	(Millions of ton-miles)										
United States, total.....	8,678	100.0	3.0	12.7	11.6	8.4	12.3	5.6	10.5	8.8	27.1
Shipments originating from—											
New England.....	97	100.0	1.4	14.1	19.4	7.8	6.0	6.8	12.0	3.5	29.0
Middle Atlantic.....	1,096	100.0	1.1	7.5	11.3	8.0	8.8	6.9	20.5	13.0	22.9
East North Central.....	3,495	100.0	3.4	14.5	12.2	10.8	9.9	4.6	10.7	8.2	25.7
West North Central.....	3,155	100.0	3.2	11.4	8.2	6.7	17.2	7.1	4.6	8.9	32.7
South Atlantic.....	207	100.0	1.9	18.0	29.7	3.5	18.7	4.2	6.1	2.3	15.6
East South Central.....		100.0	.6	5.8	6.4	3.5	7.4	3.2	43.5	10.6	19.0
West South Central.....	176	100.0									
Mountain.....	452	100.0	4.6	20.5	24.3	7.0	5.3	1.5	14.6	6.6	15.6
Pacific ²		100.0									

¹Shipments to Alaska and Hawaii from the 48 conterminous States and the District of Columbia are included.²No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 10. **Tons and Ton-Miles of Shipments—Means of Transport and Employment Size of Establishment: 1963**

Employment size of establishment	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
Total.....	14,130	100.0	37.0	50.6	9.7	0.3	0.2	1.9	0.3
Number of employees—									
Under 20.....	211	100.0	.2	86.1	10.3	.2	—	2.9	.3
20 to 99.....	1,170	100.0	5.8	58.6	32.8	.2	.2	2.1	.3
100 to 499.....	5,551	100.0	40.7	49.4	7.3	.2	.2	1.9	.3
500 and over.....	7,198	100.0	40.3	49.1	7.9	.4	.3	1.8	.2
TON-MILES	(Millions of ton-miles)								
Total.....	8,678	100.0	51.5	40.0	4.5	.6	.6	2.6	.2
Number of employees—									
Under 20.....	87	100.0	.1	87.6	1.6	.5	—	8.4	1.8
20 to 99.....	503	100.0	13.5	60.2	21.5	.6	.1	4.0	.1
100 to 499.....	3,486	100.0	55.2	39.6	3.4	.2	.4	1.0	.2
500 and over.....	4,602	100.0	53.9	37.2	3.6	.9	.7	3.6	.1

TABLE 11. **Tons of Shipments—Distance Shipped and Employment Size of Establishment: 1963**

Employment size of establishment	Tons (thousands)	Percent distribution by distance of shipment								
		All distances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
Total tons.....	14,130	100.0	12.7	11.4	10.7	10.5	7.9	28.1	8.3	10.4
Number of employees—										
Under 20.....	211	100.0	21.5	27.6	14.2	7.2	4.2	16.2	1.9	7.2
20 to 99.....	1,170	100.0	32.2	11.5	8.6	8.5	9.4	18.4	6.8	4.6
100 to 499.....	5,551	100.0	11.2	11.4	11.0	9.0	8.4	28.1	9.8	11.1
500 and over.....	7,198	100.0	10.4	10.8	10.8	12.2	7.4	29.9	7.5	11.0

TABLE 12. **Tons of Shipments—Distance Shipped and
Production Area of Origin: 1963**

Production Area of origin	Tons (thousands)	Percent distribution by distance of shipment							
		All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
TONS OF SHIPMENTS									
Total.....	14,130	100.0	12.7	11.4	10.7	18.4	28.1	8.3	10.4
Production Areas ¹ —									
1.....	70	100.0	32.4	15.1	4.4	11.9	20.7	7.2	8.3
2.....	41	100.0	26.2	26.0	4.0	7.3	22.7	6.4	7.4
4.....	255	100.0	20.4	7.8	4.6	7.8	39.6	8.0	11.8
5.....	187	100.0	25.3	2.6	20.7	16.4	8.5	9.0	17.5
11.....	1,472	100.0	19.9	15.0	14.4	23.0	10.7	4.3	12.7
13.....	418	100.0	15.6	5.4	6.2	21.0	39.5	4.7	7.6
15.....	1,014	100.0	19.5	12.8	15.3	11.6	31.0	3.7	6.1
16.....	490	100.0	13.2	6.1	10.6	26.8	28.8	7.8	6.7
17.....	188	100.0	14.4	3.3	7.4	21.8	27.4	23.8	1.9
18.....	55	100.0	1.4	.9	17.6	29.2	34.6	5.1	11.2
21.....	295	100.0	5.7	15.3	52.9	11.2	3.2	8.3	3.4
24.....	164	100.0	25.6	1.6	1.1	36.4	4.0	1.4	29.9
25.....	121	100.0	23.5	13.3	3.1	34.0	4.4	7.8	13.9
Balance of Production Areas....	1,023	100.0	27.4	12.5	7.2	12.3	17.3	11.5	11.8
SMSA's Outside Production Areas	5,355	100.0	3.5	8.5	7.4	18.8	37.6	11.3	12.9
Balance of United States.....	2,982	100.0	15.3	17.1	12.0	18.2	25.8	5.2	6.4

¹For description of Production Areas, see map in appendix C.

TABLE 13. **Tons and Ton-Miles of Shipments—Area of Destination
and of Origin: 1963**

Area of origin	Tons and ton-miles	Percent distribution by area of destination			
		All areas of destination	Production Areas	SMSA's outside Production Areas	Areas outside SMSA's
TONS OF SHIPMENTS	(Thousands of tons)				
United States, total.....	14,130	100.0	39.6	26.1	34.3
In Production Areas.....	5,793	100.0	45.5	22.0	32.5
In SMSA's outside Production Areas....	5,355	100.0	33.4	32.2	34.4
Outside of SMSA's.....	2,982	100.0	39.6	23.0	37.4
TON-MILES	(Millions of ton-miles)				
United States, total.....	8,678	100.0	37.7	31.3	31.0
In Production Areas.....	3,257	100.0	37.4	30.6	32.0
In SMSA's outside Production Areas....	3,914	100.0	35.7	33.7	30.6
Outside of SMSA's.....	1,507	100.0	43.2	26.8	30.0

Shipper Group 20

Communication Products and Parts

Data for Shipper Group 20 are based on a probability sample of 61,117 shipments reported by 506 establishments. The shipper group has been divided into three subgroups which can be closely related to industries classified in the Standard Industrial Classification (SIC). (This is the system of industrial classification developed over a period of years by experts on classification in government and private industry under the guidance of the Bureau of the Budget.) The subgroup and related SIC industries are as follows:

Shipper Subgroup 201.—Radio and TV receiving sets (except communication type), and phonograph records
 SIC 3651.—Radio and television receiving sets, except communication types
 SIC 3652.—Phonograph records

Shipper Subgroup 202.—Communications equipment
 SIC 3661.—Telephone and telegraph apparatus
 SIC 3662.—Radio and television transmitting, signaling and detection equipment and apparatus

Shipper Subgroup 203.—Electronic components and accessories
 SIC 3671.—Radio and television receiving type electron tubes, except cathode ray
 SIC 3672.—Cathode ray picture tubes
 SIC 3673.—Transmitting, industrial, and special purpose electron tubes
 SIC 3679.—Electronic components and accessories, n.e.c.

Commodities primary to these industries are classified in the following Transportation Commodity Classifications (TCC):¹

TCC 365.—Radio and television receiving sets (except communication types), phonographs, and phonograph records
 TCC 366.—Communication equipment
 TCC 367.—Electronic components or accessories

¹See *Commodity Classification for Transportation Statistics, 1963, Executive Office of the President, Bureau of the Budget.*

Data for these commodities are included in the Commodity Series chapter: Commodity Group 36, Electrical Machinery and Equipment.

Because the data are based on a probability sample, they are subject to sampling variability. The term "sampling variability" refers to the differences that would be expected between results of a sample survey and results that would have been obtained from a complete enumeration of plants and shipping documents. Estimates of sampling variability for Shipper Group 20 on total tons and on key items, are shown below:

Item	Estimated tons based on sample (thousands)	Sampling variability (percent)
Total tons.....	2,391	7.3
SHIPPER SUBGROUPS		
201 Radio and TV receiving sets (except communication type), and phonograph records.....	943	8.4
202 Communications equipment.....	793	15.5
203 Electronic components and accessories.....	655	6.6
MEANS OF TRANSPORT		
Rail.....	531	13.2
Motor carrier.....	1,344	6.6
Private truck.....	215	5.6
Other.....	301	14.0
ORIGIN OF SHIPMENT (Geographic Division)		
New England.....	131	11.4
Middle Atlantic.....	755	9.8
East North Central.....	1,181	9.3
West North Central.....	131	48.8
South Atlantic.....	45	24.4
East South Central.....	25	20.0
West South Central.....	44	18.1
Mountain and Pacific.....	79	19.2

TABLE 1. Tons and Ton-Miles of Shipments—Means of Transport and Shipper Subgroup: 1963

Shipper subgroup	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
20 Communication products and parts..	2,391	100.0	22.2	56.2	9.0	2.8	0.4	9.1	0.3
201 Radio and TV receiving sets (except communication type), and phonograph records.....	943	100.0	18.4	60.5	5.6	.7	.4	14.2	.2
202 Communications equipment.....	793	100.0	30.0	60.5	1.7	2.2	.1	5.4	.1
203 Electronic components and accessories.....	655	100.0	18.2	44.9	22.6	6.7	.6	6.2	.8
TON-MILES	(Millions of ton-miles)								
20 Communication products and parts..	1,537	100.0	28.1	49.5	3.9	4.3	.5	13.5	.2
201 Radio and TV receiving sets (except communication type), and phonograph records.....	649	100.0	30.0	44.3	4.3	1.1	.7	19.4	.2
202 Communications equipment.....	589	100.0	28.5	57.7	.5	3.5	-	9.7	.1
203 Electronic components and accessories.....	299	100.0	23.1	44.7	10.1	12.8	1.0	8.0	.3

TABLE 2. Tons of Shipments—Means of Transport and Distance Shipped: 1963

Distance shipped ¹	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
All distances.....	2,391	100.0	22.2	56.2	9.0	2.8	0.4	9.1	0.3
Under 50 miles.....	141	100.0	6.7	67.3	14.1	.5	1.0	10.2	.2
50 to 99 miles.....	151	100.0	4.5	66.9	26.2	.1	1.0	1.2	.1
100 to 199 miles.....	356	100.0	15.4	58.0	21.2	.2	.1	3.7	1.4
200 to 299 miles.....	236	100.0	5.0	81.1	6.5	1.5	-	5.7	.2
300 to 399 miles.....	121	100.0	8.6	77.0	9.5	1.4	.5	3.0	-
400 to 499 miles.....	140	100.0	14.2	70.7	8.1	1.1	-	5.9	-
500 to 599 miles.....	242	100.0	53.1	35.8	4.7	.8	-	5.6	-
600 to 799 miles.....	387	100.0	28.3	49.4	3.4	9.5	-	9.3	.1
800 to 999 miles.....	178	100.0	28.7	40.4	4.9	2.4	-	23.4	.2
1,000 to 1,199 miles.....	78	100.0	13.0	54.8	2.6	2.7	2.3	24.6	-
1,200 to 1,499 miles.....	92	100.0	32.7	49.7	4.5	3.1	.5	9.0	.5
1,500 to 1,999 miles.....	157	100.0	38.9	44.4	.9	1.8	1.1	12.8	.1
2,000 miles and over.....	112	100.0	24.3	45.1	.9	7.4	.6	21.7	-

NOTE: Percent distributions by ton-miles are about the same as those for tons because data are grouped in mileage blocks.

¹Distances of shipments to foreign destinations are calculated only to the American port of exit.

TABLE 3. **Tons and Ton-Miles of Shipments—Means of Transport and Weight: 1963**

Weight	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
Total.....	1,835	100.0	24.6	56.0	7.9	1.2	0.4	9.5	0.4
Shipments—									
Under 1,000 pounds.....	266	100.0	2.1	75.2	4.4	5.3	.3	12.4	.3
Under 50 pounds.....	20	100.0	2.0	23.2	3.2	17.3	.1	53.9	.3
50 to 99 pounds.....	18	100.0	2.3	63.4	3.8	12.6	.2	17.5	.2
100 to 199 pounds.....	40	100.0	3.5	75.8	3.8	7.2	.2	9.0	.5
200 to 499 pounds.....	92	100.0	2.1	81.2	4.9	4.1	.5	6.9	.3
500 to 999 pounds.....	96	100.0	1.5	82.2	4.5	1.8	.1	9.7	.2
1,000 to 9,999 pounds.....	522	100.0	3.1	77.1	7.3	1.4	.4	10.4	.3
1,000 to 1,999 pounds.....	130	100.0	2.2	82.7	5.7	1.6	.3	7.2	.3
2,000 to 9,999 pounds.....	392	100.0	3.4	75.1	7.8	1.4	.5	11.5	.3
10,000 pounds and over.....	1,047	100.0	41.1	40.7	9.0	.1	.3	8.3	.5
TON-MILES	(Millions of ton-miles)								
Total.....	1,126	100.0	31.8	48.5	2.9	2.2	.6	13.8	.2
Shipments—									
Under 1,000 pounds.....	190	100.0	3.4	70.0	1.8	8.7	.2	15.6	.3
Under 50 pounds.....	16	100.0	2.5	20.2	.5	26.9	.2	49.4	.3
50 to 99 pounds.....	13	100.0	2.8	56.3	.9	19.5	.4	19.8	.3
100 to 199 pounds.....	32	100.0	4.4	72.3	1.5	9.2	.2	11.7	.7
200 to 499 pounds.....	67	100.0	4.0	76.4	2.5	6.9	.4	9.7	.1
500 to 999 pounds.....	62	100.0	2.6	76.8	1.9	3.6	.1	14.7	.3
1,000 to 9,999 pounds.....	326	100.0	5.0	66.9	3.9	2.4	.7	20.7	.4
1,000 to 1,999 pounds.....	81	100.0	3.1	76.6	3.5	4.7	.6	10.9	.6
2,000 to 9,999 pounds.....	245	100.0	5.6	63.6	4.0	1.7	.8	24.0	.3
10,000 pounds and over.....	610	100.0	54.9	32.0	2.7	.1	.7	9.5	.1

NOTE: Because of rounding, detail may not add to total.

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 4. **Tons of Shipments—Means of Transport,
Distance Shipped, and Weight: 1963**

Distance and weight	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS									
Total.....	1,835	100.0	24.6	56.0	7.9	1.2	0.4	9.5	0.4
Under 200 miles.....	509	100.0	11.3	62.7	20.1	.1	.3	4.5	1.0
Under 1,000 pounds.....	61	100.0	.5	80.6	9.3	1.1	.3	7.7	.5
1,000 pounds and over.....	448	100.0	12.7	60.3	21.5	-	.3	4.1	1.1
200 to 399 miles.....	269	100.0	6.1	82.4	5.3	1.4	.2	4.4	.2
Under 1,000 pounds.....	46	100.0	1.5	81.8	3.3	3.2	.6	9.4	.2
1,000 pounds and over.....	223	100.0	7.0	82.6	5.7	1.0	.1	3.4	.2
400 miles and over.....	1,057	100.0	35.7	46.3	2.6	1.7	.4	13.2	.1
Under 1,000 pounds.....	159	100.0	2.8	71.4	2.8	7.5	.1	15.1	.3
1,000 pounds and over.....	898	100.0	41.6	41.8	2.5	.6	.5	12.9	.1

NOTE: Because of rounding, detail may not add to total.

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 5. **Tons and Ton-Miles of Shipments—Means of Transport and Commodity: 1963**

TCC code	Commodity	Tons and ton-miles	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
	TONS OF SHIPMENTS	(Thousands of tons)								
	Total products shipped.....	2,391	100.0	22.2	56.2	9.0	2.8	0.4	9.1	0.3
	Total primary commodities ¹	1,593	100.0	20.3	56.5	9.6	1.4	.4	11.4	.4
	Total other commodities ²	798	100.0	26.0	55.6	7.8	5.7	.2	4.6	.1
	Selected Primary Commodities ³									
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records.....	894	100.0	18.7	59.4	5.6	.6	.5	15.0	.2
3651	Radio and television receiving sets (except communication types), and phonographs.....	719	100.0	23.0	51.6	6.5	.3	.6	17.8	.2
3652	Phonograph records, record blanks and prerecorded tapes..	175	100.0	1.1	91.4	1.7	2.1	.3	3.3	.1
366	Communication equipment.....	307	100.0	17.5	69.7	1.4	2.7	.1	8.5	.1
367	Electronic components or accessories.....	385	100.0	26.6	38.6	25.5	2.0	.6	5.4	1.3
3671	Electronic tubes (exc. X-ray tubes).....	289	100.0	34.5	27.6	31.9	.3	.5	3.5	1.7
3674	Solid state semiconductor devices.....	8	100.0	2.1	63.6	2.0	19.7	-	12.2	.4
3679	Miscellaneous electronic components and accessories.....	82	100.0	1.0	75.4	6.2	6.0	.9	10.5	-
	TON-MILES	(Millions of ton-miles)								
	Total.....	1,537	100.0	28.1	49.5	3.9	4.3	.5	13.5	.2
	Total primary commodities ¹	1,078	100.0	28.0	48.9	4.5	2.3	.6	15.5	.2
	Total other commodities ²	459	100.0	28.3	51.0	2.7	9.0	.3	8.6	.1
	Selected Primary Commodities ³									
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records.....	634	100.0	30.4	43.6	4.2	1.0	.7	19.9	.2
3651	Radio and television receiving sets (except communication types), and phonographs.....	510	100.0	37.0	32.9	5.0	.5	.9	23.5	.2
3652	Phonograph records, record blanks and prerecorded tapes..	124	100.0	3.6	87.7	.7	3.0	.1	4.9	-
366	Communication equipment.....	264	100.0	18.9	65.1	.8	3.4	-	11.7	.1
367	Electronic components or accessories.....	176	100.0	33.5	42.8	11.1	5.4	.8	5.9	.5
3671	Electronic tubes (exc. X-ray tubes).....	110	100.0	51.9	26.3	17.0	.9	.1	3.1	.7
3674	Solid state semiconductor devices.....	5	100.0	1.9	52.3	.1	34.3	-	11.0	.4
3679	Miscellaneous electronic components and accessories.....	58	100.0	2.4	73.3	1.0	10.6	2.1	10.5	.1

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 365, 366, and 367.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 6. Tons of Shipments—Distance Shipped and
Commodity: 1963

TCC code	Commodity	Tons (thousands)	Percent distribution by distance of shipment								
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
	Total products shipped.	2,391	100.0	12.2	14.9	9.9	5.1	5.9	33.6	7.1	11.3
	Total primary com- modities ¹	1,593	100.0	9.9	16.1	10.8	5.4	5.3	30.9	8.6	13.0
	Total other com- modities ²	798	100.0	16.7	12.4	8.0	4.4	6.9	39.6	4.1	7.9
	Selected Primary Commodities ³										
365	Radio and television rec- eiving sets (except communication types), phonographs, and phono- graph records.....	894	100.0	10.7	9.0	12.5	6.3	6.1	33.0	9.4	13.0
3651	Radio and television rec- eiving sets (except com- munication types), and phonographs.....	719	100.0	10.4	7.2	13.1	6.5	6.2	35.3	8.3	13.0
3652	Phonograph records, record blanks and pre- recorded tapes.....	175	100.0	11.6	16.4	10.4	5.4	5.8	23.9	13.9	12.6
366	Communication equipment....	307	100.0	4.7	9.1	10.5	3.8	7.5	30.0	15.0	19.4
367	Electronic components or accessories.....	385	100.0	12.3	38.2	7.1	4.8	1.9	26.0	1.8	7.9
3671	Electronic tubes (exc. X-ray tubes).....	289	100.0	10.3	46.3	7.2	4.7	.8	24.1	.7	5.9
3674	Solid state semicon- ductor devices.....	8	100.0	8.3	13.3	9.7	12.0	7.1	27.0	14.1	8.5
3679	Miscellaneous electronic components and acces- sories.....	82	100.0	18.8	12.9	6.5	4.0	5.5	32.6	4.4	15.3

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 365, 366, and 367.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 7. Tons of Shipments—Means of Transport, Geographic Division of Origin, and Distance Shipped: 1963

Geographic division and distance	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
United States, total.....	2,391	100.0	22.2	56.2	9.0	2.8	0.4	9.1	0.3
Under 200 miles.....	648	100.0	11.0	62.1	20.8	.3	.5	4.5	.8
200 to 399 miles.....	357	100.0	6.2	79.6	7.5	1.5	.2	4.8	.2
400 to 599 miles.....	382	100.0	38.8	48.7	5.9	.9	-	5.7	-
600 to 999 miles.....	565	100.0	28.4	46.5	3.9	7.3	-	13.8	.1
1,000 miles and over.....	439	100.0	29.3	47.4	1.9	3.7	1.1	16.4	.2
New England and Middle Atlantic.....	886	100.0	18.5	61.3	7.9	2.0	.8	8.9	.6
Under 200 miles.....	340	100.0	16.7	60.6	15.3	.4	.9	4.6	1.5
200 to 399 miles.....	127	100.0	10.4	77.1	4.5	2.8	-	5.0	.2
400 to 599 miles.....	94	100.0	26.1	65.0	5.1	1.1	-	2.6	.1
600 to 999 miles.....	150	100.0	15.5	70.5	3.4	3.2	-	7.4	-
1,000 miles and over.....	175	100.0	26.5	41.2	1.3	3.9	2.4	24.7	-
East North Central and West North Central.....	1,312	100.0	27.4	51.6	8.0	2.9	-	10.0	.1
Under 200 miles.....	283	100.0	4.8	65.1	25.8	-	-	4.2	.1
200 to 399 miles.....	197	100.0	4.4	81.7	8.2	.5	-	5.0	.2
400 to 599 miles.....	260	100.0	47.4	42.3	2.6	.6	-	7.1	-
600 to 999 miles.....	380	100.0	35.5	36.1	2.2	8.9	-	17.1	.2
1,000 miles and over.....	192	100.0	41.2	43.9	.1	.9	.2	13.4	.3
South Atlantic, East South Central and West South Central.....	114	100.0	4.9	56.2	30.0	4.9	-	4.0	-
Under 400 miles.....	32	100.0	3.3	65.3	28.2	.8	-	2.4	-
400 to 599 miles.....	26	100.0	3.9	48.2	42.2	2.7	-	3.0	-
600 to 999 miles.....	24	100.0	7.7	43.4	34.9	7.8	-	6.1	.1
1,000 miles and over.....	32	100.0	5.3	62.6	18.2	8.8	-	5.1	-
Mountain and Pacific ¹	79	100.0	3.0	76.4	7.0	8.2	.9	4.4	.1
Under 200 miles.....	12	100.0	.1	43.1	43.5	2.6	-	10.7	-
200 to 399 miles.....	14	100.0	.6	85.8	2.0	3.8	4.0	3.7	.1
400 to 999 miles.....	13	100.0	5.3	85.6	.5	6.4	-	2.2	-
1,000 miles and over.....	40	100.0	3.9	80.0	.2	11.9	.3	3.6	.1

¹No data were obtained on shipments originating in Alaska and Hawaii.

CENSUS GEOGRAPHIC DIVISIONS

New England—Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut

Middle Atlantic—New York, New Jersey, Pennsylvania

East North Central—Ohio, Indiana, Illinois, Michigan, Wisconsin

West North Central—Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, Kansas

South Atlantic—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida

East South Central—Kentucky, Tennessee, Alabama, Mississippi

West South Central—Arkansas, Louisiana, Oklahoma, Texas

Mountain—Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada

Pacific—Washington, Oregon, California, Alaska, Hawaii

TABLE 8. Tons and Ton-Miles of Shipments—Means of Transport and Geographic Division of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
United States, total.....	2,391	100.0	22.2	56.2	9.0	2.8	0.4	9.1	0.3
Shipments originating from—									
New England.....	131	100.0	.9	70.8	5.0	2.9	.5	19.8	.1
Middle Atlantic.....	755	100.0	21.5	59.7	8.4	1.8	.9	7.0	.7
East North Central.....	1,181	100.0	28.5	48.5	8.9	3.1	-	10.9	.1
West North Central.....	131	100.0	16.9	80.0	.1	1.1	-	1.7	.2
South Atlantic.....	45	100.0	2.7	82.1	1.6	6.2	-	7.4	-
East South Central.....	25	100.0	17.4	28.5	46.7	4.5	-	2.9	-
West South Central.....	44	100.0	.2	44.8	49.9	3.9	-	1.2	-
Mountain.....	79	100.0	3.0	76.4	7.0	8.2	.9	4.4	.1
Pacific ¹									
TON-MILES	(Millions of ton-miles)								
United States, total.....	1,537	100.0	28.1	49.5	3.9	4.3	.5	13.5	.2
Shipments originating from—									
New England.....	110	100.0	2.5	55.0	2.1	4.2	.9	35.3	-
Middle Atlantic.....	439	100.0	28.6	50.7	3.2	3.2	1.2	12.9	.2
East North Central.....	718	100.0	37.9	40.7	3.0	4.0	.1	14.1	.2
West North Central.....	86	100.0	25.7	70.3	.1	1.3	-	2.6	-
South Atlantic.....	36	100.0	1.6	77.0	.4	10.6	-	10.4	-
East South Central.....	16	100.0	31.3	23.6	37.2	4.9	-	3.0	-
West South Central.....	37	100.0	.1	49.7	43.6	5.2	-	1.4	-
Mountain.....	95	100.0	3.5	80.0	.5	11.8	.5	3.6	.1
Pacific ¹									

¹No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 9. Tons and Ton-Miles of Shipments—Geographic Division of Destination and of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by geographic division of destination									
		All divisions	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific ¹
TONS OF SHIPMENTS	(Thousands of tons)										
United States, total.....	2,391	100.0	6.0	26.2	23.9	11.1	9.4	3.8	6.8	2.1	10.7
Shipments originating from—											
New England.....	131	100.0	10.6	25.4	25.4	3.6	14.7	1.0	5.0	3.9	10.4
Middle Atlantic.....	755	100.0	8.1	38.9	18.7	5.3	9.8	5.1	4.4	2.3	7.4
East North Central.....	1,181	100.0	4.6	20.5	28.8	14.7	9.1	3.8	7.1	1.1	10.3
West North Central.....	131	100.0	1.8	19.1	17.6	27.4	4.5	.9	12.8	2.4	13.5
South Atlantic.....	45	100.0	4.9	26.1	22.3	2.8	15.6	4.9	4.8	4.9	13.7
East South Central.....	25	100.0	11.7	24.6	26.0	5.8	11.6	6.1	5.1	2.4	6.7
West South Central.....	44	100.0	1.7	7.9	14.5	15.9	12.3	2.4	22.6	5.2	17.5
Mountain.....	79	100.0	7.0	12.1	11.4	2.8	4.5	1.1	12.2	9.7	39.2
Pacific ²											
TON-MILES	(Millions of ton-miles)										
United States, total.....	1,537	100.0	5.1	16.8	12.2	9.1	9.5	3.1	9.6	4.8	29.8
Shipments originating from—											
New England.....	110	100.0	1.0	6.5	21.9	5.2	12.9	1.1	10.0	9.4	32.0
Middle Atlantic.....	439	100.0	2.8	8.6	17.3	9.0	7.7	6.7	10.0	7.1	30.8
East North Central.....	718	100.0	6.0	21.4	6.7	10.6	10.4	1.9	9.4	2.3	31.3
West North Central.....	86	100.0	3.4	26.7	12.2	9.8	6.7	.9	8.6	3.7	28.0
South Atlantic.....	36	100.0	3.8	12.3	13.8	3.5	6.7	2.7	5.9	11.9	39.4
East South Central.....	16	100.0	13.3	22.3	18.9	5.1	7.1	1.9	4.6	6.1	20.7
West South Central.....	37	100.0	3.1	12.4	13.3	15.2	15.2	1.7	5.7	5.0	28.4
Mountain.....	95	100.0	14.9	24.6	17.6	3.4	8.5	1.6	13.2	4.9	11.3
Pacific ²											

¹Shipments to Alaska and Hawaii from the 48 conterminous States and the District of Columbia are included.²No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 10. Tons and Ton-Miles of Shipments—Means of Transport and Employment Size of Establishment: 1963

Employment size of establishment	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS		(Thousands of tons)							
Total.....	2,391	100.0	22.2	56.2	9.0	2.8	0.4	9.1	0.3
Number of employees—									
Under 20.....	32	100.0	2.1	91.8	1.3	2.0	—	2.7	.1
20 to 99.....	137	100.0	2.0	89.7	2.5	1.8	.1	3.7	.2
100 to 499.....	474	100.0	3.0	79.5	5.1	1.7	.4	10.2	.1
500 and over.....	1,748	100.0	29.4	46.5	10.7	3.2	.4	9.4	.4
TON-MILES		(Millions of ton-miles)							
Total.....	1,537	100.0	28.1	49.5	3.9	4.3	.5	13.5	.2
Number of employees—									
Under 20.....	39	100.0	1.5	94.7	.3	2.2	—	1.3	—
20 to 99.....	77	100.0	6.5	85.8	.9	2.6	.3	3.8	.1
100 to 499.....	303	100.0	2.5	69.7	2.1	3.1	.5	22.0	.1
500 and over.....	1,118	100.0	37.4	40.0	4.8	4.8	.5	12.3	.2

TABLE 11. Tons of Shipments—Distance Shipped and Employment Size of Establishment: 1963

Employment size of establishment	Tons (thousands)	Percent distribution by distance of shipment								
		All distances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
Total tons.....	2,391	100.0	12.2	14.9	9.9	5.1	5.9	33.6	7.1	11.3
Number of employees—										
Under 20.....	32	100.0	13.9	4.6	3.0	5.9	.4	26.3	10.1	35.8
20 to 99.....	137	100.0	16.5	14.0	11.6	4.1	13.8	25.7	7.5	6.8
100 to 499.....	474	100.0	18.1	16.4	11.1	6.2	7.1	19.6	8.3	13.2
500 and over.....	1,748	100.0	10.2	14.7	9.6	4.8	5.0	38.4	6.7	10.6

TABLE 12. **Tons of Shipments—Distance Shipped and
Production Area of Origin: 1963**

Production Area of origin	Tons (thousands)	Percent distribution by distance of shipment							
		All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500' miles or over
TONS OF SHIPMENTS									
Total.....	2,391	100.0	12.2	14.9	9.9	11.0	33.6	7.1	11.3
Production Areas ¹ —									
1.....	62	100.0	4.2	10.0	10.6	15.9	17.4	18.1	23.8
2.....	28	100.0	14.2	10.2	6.3	8.5	41.4	7.4	12.0
3.....	63	100.0	26.1	10.7	4.2	14.2	21.2	7.9	15.7
4.....	241	100.0	11.4	17.3	8.8	9.6	24.0	11.9	17.0
5.....	69	100.0	29.7	6.9	9.5	6.5	20.2	10.2	17.0
10.....	22	100.0	6.5	2.1	20.6	9.3	33.5	17.1	10.9
15.....	608	100.0	11.4	3.1	8.3	9.4	55.7	4.6	7.5
24.....	9	100.0	5.6	4.4	.7	11.0	19.3	4.6	54.4
25.....	67	100.0	13.8	1.5	2.4	17.7	16.2	11.8	36.6
Balance of Production Areas....	189	100.0	12.6	18.1	10.7	6.6	35.4	11.0	5.6
SMSA's outside Production Areas.....	332	100.0	4.6	14.8	10.1	17.3	26.9	11.4	14.9
Balance of United States.....	701	100.0	14.4	27.0	12.4	10.2	26.3	2.4	7.3

¹For description of Production Areas, see map in appendix C.

TABLE 13. **Tons and Ton-Miles of Shipments—Area of Destination
and of Origin: 1963**

Area of origin	Tons and ton-miles	Percent distribution by area of destination			
		All areas of destination	Production Areas	SMSA's outside Production Areas	Areas outside SMSA's
TONS OF SHIPMENTS	(Thousands of tons)				
United States, total.....	2,391	100.0	60.6	20.8	18.6
In Production Areas.....	1,358	100.0	57.3	23.1	19.6
In SMSA's outside Production Areas....	332	100.0	62.3	25.0	12.7
Outside of SMSA's.....	701	100.0	66.1	14.4	19.5
TON-MILES	(Millions of ton- miles)				
United States, total.....	1,537	100.0	59.4	24.4	16.2
In Production Areas.....	964	100.0	54.6	27.8	17.6
In SMSA's outside Production Areas....	247	100.0	69.9	21.8	8.3
Outside of SMSA's.....	326	100.0	65.8	16.4	17.8

Shipper Group 21

Electrical Products and Supplies

Data for Shipper Group 21 are based on a probability sample of 51,374 shipments reported by 408 establishments. The shipper group has been divided into five subgroups which can be closely related to industries classified in the Standard Industrial Classification (SIC). (This is the system of industrial classification developed over a period of years by experts on classification in government and private industry under the guidance of the Bureau of the Budget.) The subgroup and related SIC industries are as follows:

Shipper Subgroup 211.—Electric transmission and distribution equipment

SIC 3611.—Electric measuring instruments and test equipment

SIC 3612.—Power, distribution, and specialty transformers

SIC 3613.—Switchgear and switchboard apparatus

SIC 3619.—Electric transmission and distribution equipment, n.e.c.

Shipper Subgroup 212.—Electrical industrial apparatus

SIC 3621.—Motors and generators

SIC 3622.—Industrial controls

SIC 3623.—Welding apparatus

SIC 3624.—Carbon and graphite products

SIC 3629.—Electrical industrial apparatus, n.e.c.

Shipper Subgroup 213.—Household appliances

SIC 3631.—Household cooking equipment

SIC 3632.—Household refrigerators and home and farm freezers

SIC 3633.—Household laundry equipment

SIC 3634.—Electric housewares and fans

SIC 3635.—Household vacuum cleaners

SIC 3636.—Sewing machines

SIC 3639.—Household appliances, n.e.c.

Shipper Subgroup 214.—Electric lighting and wiring equipment

SIC 3641.—Electric lamps

SIC 3642.—Lighting fixtures

SIC 3643.—Current carrying wiring devices

SIC 3644.—Noncurrent carrying wiring devices

Shipper Subgroup 215.—Miscellaneous electrical machinery and supplies

SIC 3691.—Storage batteries

SIC 3692.—Primary batteries, dry and wet

SIC 3693.—Radiographic X-ray, fluoroscopic X-ray, therapeutic X-ray, and other X-ray apparatus and tubes

SIC 3694.—Electrical equipment for internal combustion engines

SIC 3699.—Electrical machinery, equipment, and supplies, n.e.c.

Commodities primary to these industries are classified in the following Transportation Commodity Classifications (TCC):¹

TCC 361.—Electrical transmission and distribution equipment

TCC 362.—Electrical industrial apparatus

TCC 363.—Household appliances

TCC 364.—Electric lighting and wiring equipment

TCC 369.—Miscellaneous electrical machinery, equipment, and supplies

Data for these commodities are included in the Commodity Series chapter: Commodity Group 36, Electrical Machinery and Equipment.

Because the data are based on a probability sample, they are subject to sampling variability. The term "sampling variability" refers to the differences that would be expected between results of a sample survey and results that would have been obtained from a complete enumeration of plants and shipping documents. Estimates of sampling variability for Shipper Group 21 on total tons and on key items, are shown below:

Item	Estimated tons based on sample (thousands)	Sampling variability (percent)
Total tons.....	10,106	5.1
SHIPPER SUBGROUPS		
211 Electronic transmission and distribution equipment.....	1,085	11.1
212 Electrical industrial apparatus.....	1,804	12.5
213 Household appliances.....	3,512	7.1
214 Electric lighting and wiring equipment.....	2,291	17.3
215 Miscellaneous electrical machinery and supplies.....	1,414	14.9
MEANS OF TRANSPORT		
Rail.....	3,434	6.9
Motor carrier.....	4,999	8.4
Private truck.....	1,351	19.7
Other.....	322	13.4
ORIGIN OF SHIPMENT (Geographic Division)		
New England.....	433	27.4
Middle Atlantic.....	2,326	23.9
East North Central.....	5,186	5.8
West North Central.....	528	17.8
South Atlantic.....	196	22.9
East South Central.....	914	19.5
West South Central.....	233	44.2
Mountain and Pacific.....	290	26.2

¹ See *Commodity Classification for Transportation Statistics*, 1963, Executive Office of the President, Bureau of the Budget.

TABLE 1. **Tons and Ton-Miles of Shipments—Means of Transport and Shipper Subgroup: 1963**

Shipper subgroup	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
21 Electrical products and supplies...	10,106	100.0	34.0	49.5	13.4	0.2	0.4	2.2	0.3
211 Electric transmission and distribution equipment.....	1,085	100.0	23.9	56.2	15.8	.7	-	3.4	-
212 Electrical industrial apparatus	1,804	100.0	20.5	67.5	8.7	.4	-	1.9	1.0
213 Household appliances.....	3,512	100.0	61.8	28.9	6.4	.1	.1	2.4	.3
214 Electric lighting and wiring equipment.....	2,291	100.0	17.7	58.1	20.1	.2	1.5	2.3	.1
215 Miscellaneous electrical machinery and supplies.....	1,414	100.0	15.9	58.5	23.9	.1	.5	1.0	.1
TON-MILES	(Millions of ton-miles)								
21 Electrical products and supplies...	5,989	100.0	48.4	39.5	7.4	.5	.9	3.1	.2
211 Electric transmission and distribution equipment.....	819	100.0	44.0	35.9	15.2	1.1	-	3.8	-
212 Electrical industrial apparatus	928	100.0	35.2	56.6	4.1	.7	.1	2.7	.6
213 Household appliances.....	2,402	100.0	73.2	20.1	3.0	.2	.1	3.2	.2
214 Electric lighting and wiring equipment.....	1,352	100.0	26.8	57.4	8.5	.5	3.6	3.0	.2
215 Miscellaneous electrical machinery and supplies.....	488	100.0	18.5	59.0	20.0	.2	.1	2.1	.1

TABLE 2. **Tons of Shipments—Means of Transport and Distance Shipped: 1963**

Distance shipped ¹	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
All distances.....	10,106	100.0	34.0	49.5	13.4	0.2	0.4	2.2	0.3
Under 50 miles.....	660	100.0	20.1	51.2	25.8	.1	.7	2.0	.1
50 to 99 miles.....	630	100.0	10.0	58.0	29.4	-	.1	2.4	.1
100 to 199 miles.....	1,434	100.0	18.2	53.2	26.4	-	.7	.8	.7
200 to 299 miles.....	1,239	100.0	17.7	68.1	12.7	.1	-	1.3	.1
300 to 399 miles.....	987	100.0	21.7	60.6	15.3	.2	.1	1.0	1.1
400 to 499 miles.....	896	100.0	35.8	53.7	9.1	.2	-	.9	.3
500 to 599 miles.....	708	100.0	43.9	49.5	4.8	.3	-	1.5	-
600 to 799 miles.....	1,240	100.0	50.4	40.0	4.4	.3	-	4.8	.1
800 to 999 miles.....	675	100.0	51.7	39.7	5.5	.3	-	2.5	.3
1,000 to 1,199 miles.....	317	100.0	50.0	37.5	7.7	.5	-	3.6	.7
1,200 to 1,499 miles.....	204	100.0	44.8	43.1	4.3	.5	1.6	5.5	.2
1,500 to 1,999 miles.....	589	100.0	57.8	25.0	9.3	.5	3.7	3.7	-
2,000 miles or more.....	527	100.0	65.9	26.4	2.5	1.2	.5	3.4	.1

NOTE: Percent distributions by ton-miles are about the same as those for tons because data are grouped in mileage blocks.

¹Distances of shipments to foreign destinations are calculated only to the American port of exit.

TABLE 3. **Tons and Ton-Miles of Shipments—Means of Transport and Weight: 1963**

Weight	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
Total.....	17,604	100.0	37.8	48.7	10.6	0.2	0.3	2.1	0.3
Shipments—									
Under 1,000 pounds.....	876	100.0	3.9	79.5	5.4	1.4	.1	9.2	.5
Under 50 pounds.....	41	100.0	2.3	26.9	3.3	6.6	.1	60.4	.4
50 to 99 pounds.....	54	100.0	2.7	66.7	3.4	4.7	.1	21.7	.7
100 to 199 pounds.....	133	100.0	6.0	81.7	2.3	1.5	.1	8.1	.3
200 to 499 pounds.....	327	100.0	2.6	82.9	6.5	.9	.1	6.2	.8
500 to 999 pounds.....	321	100.0	4.7	84.0	6.3	.6	.1	4.0	.3
1,000 to 9,999 pounds.....	1,467	100.0	4.1	78.4	12.9	.3	.5	3.5	.3
1,000 to 1,999 pounds.....	401	100.0	1.7	85.5	7.2	.5	.3	4.3	.5
2,000 to 9,999 pounds.....	1,066	100.0	5.0	75.8	15.0	.2	.6	3.2	.2
10,000 to 19,999 pounds.....	1,748	100.0	47.8	36.9	13.6	.1	.1	1.0	.5
20,000 pounds and over.....	3,513	100.0	55.2	34.6	9.5	-	.3	.2	.2
TON-MILES	(Millions of ton-miles)								
Total.....	14,510	100.0	52.9	37.2	6.0	.5	.3	2.9	.2
Shipments—									
Under 1,000 pounds.....	487	100.0	6.6	74.7	1.9	3.0	.1	13.1	.6
Under 50 pounds.....	27	100.0	3.6	24.6	1.5	12.1	.3	57.4	.5
50 to 99 pounds.....	35	100.0	3.9	59.8	.6	10.9	-	24.2	.6
100 to 199 pounds.....	81	100.0	9.9	75.9	.6	3.0	-	10.3	.3
200 to 499 pounds.....	170	100.0	4.7	79.7	1.8	1.9	-	10.7	1.2
500 to 999 pounds.....	174	100.0	7.8	80.4	2.9	1.0	.1	7.5	.3
1,000 to 9,999 pounds.....	693	100.0	6.7	76.1	7.5	.6	1.0	7.8	.3
1,000 to 1,999 pounds.....	204	100.0	2.4	84.3	4.1	.9	.5	7.3	.5
2,000 to 9,999 pounds.....	489	100.0	8.5	72.8	8.9	.5	1.1	7.9	.3
10,000 to 19,999 pounds.....	1,031	100.0	64.4	25.0	9.0	.4	-	.8	.4
20,000 pounds and over.....	2,299	100.0	71.5	22.9	5.1	-	.3	.2	-

NOTE: Because of rounding, detail may not add to total.

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 4. **Tons of Shipments—Means of Transport,
Distance Shipped, and Weight: 1963**

Distance and weight	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS									
Total.....	1 7,604	100.0	37.8	48.7	10.6	0.2	0.3	2.1	0.3
Under 200 miles.....	1,914	100.0	18.9	58.7	19.6	-	.6	1.7	.5
Under 1,000 pounds.....	262	100.0	1.1	77.6	13.4	.3	.2	6.9	.5
1,000 pounds and over.....	1,652	100.0	21.7	55.7	20.5	-	.7	.9	.5
200 to 399 miles.....	1,728	100.0	21.8	61.4	15.4	.1	-	1.0	.3
Under 1,000 pounds.....	190	100.0	2.3	87.5	4.1	.7	-	5.1	.3
1,000 pounds and over.....	1,538	100.0	24.3	58.1	16.8	-	-	.5	.3
400 to 599 miles.....	1,287	100.0	43.9	50.7	4.1	.2	-	1.0	.1
Under 1,000 pounds.....	125	100.0	2.4	87.5	1.1	1.3	-	7.3	.4
1,000 pounds and over.....	1,162	100.0	48.4	46.6	4.4	.1	-	.4	.1
600 to 999 miles.....	1,460	100.0	56.3	37.0	3.2	.3	-	3.0	.2
Under 1,000 pounds.....	162	100.0	6.5	77.5	.6	1.7	-	12.8	.9
1,000 pounds and over.....	1,298	100.0	62.5	32.0	3.5	.1	-	1.8	.1
1,000 miles and over.....	1,215	100.0	61.6	27.4	5.4	.7	.6	4.0	.3
Under 1,000 pounds.....	137	100.0	9.5	67.3	1.9	4.1	.1	16.6	.5
1,000 pounds and over.....	1,078	100.0	68.2	22.4	5.9	.3	.6	2.4	.2

NOTE: because of rounding, detail may not add to total.

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 5. Tons and Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons and ton-miles	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
	TONS OF SHIPMENTS	(Thousands of tons)								
	Total products shipped.....	10,106	100.0	34.0	49.5	13.4	0.2	0.4	2.2	0.3
	Total primary commodities ¹ ..	8,099	100.0	32.2	50.6	14.2	.2	.5	2.1	.2
	Total other commodities ² ...	2,007	100.0	41.1	45.1	10.0	.2	.4	2.6	.6
	Selected Primary Commodities ³									
361	Electrical transmission and distribution equipment.....	1,024	100.0	13.5	50.6	32.6	.6	-	2.6	.1
3611	Electrical measuring instruments and test equipment.....	39	100.0	23.8	56.0	1.6	5.9	-	12.5	.2
3612	Power, distribution and specialty transformers.....	506	100.0	14.4	64.8	18.5	.4	-	1.8	.1
3613	Switchgear and switchboard apparatus.....	478	100.0	11.7	34.9	50.1	.4	-	2.7	.2
362	Electrical industrial apparatus.	1,257	100.0	15.6	71.1	9.8	.4	-	2.6	.5
3621	Motors and generators.....	980	100.0	16.0	70.5	11.9	.3	-	1.0	.3
3622	Industrial controls and parts.	88	100.0	2.0	71.9	2.8	1.9	-	21.4	-
363	Household appliances.....	3,031	100.0	64.8	26.6	6.0	.1	.1	2.1	.3
3631	Household cooking equipment, all types.....	493	100.0	66.9	27.7	3.6	-	.1	1.6	.1
3632	Household refrigerators, home and farm freezers, all types.	1,013	100.0	80.8	16.0	2.7	-	-	.5	-
3634	Electric housewares and fans..	274	100.0	8.2	69.4	4.2	.9	.3	16.2	.8
364	Electric lighting and wiring equipment.....	1,754	100.0	15.3	66.8	13.9	.3	1.6	2.0	.1
3641	Electric lamps and sealed beam lamps.....	162	100.0	51.9	39.6	6.6	.1	-	1.7	.1
3642	Lighting fixtures.....	1,277	100.0	12.0	68.1	16.4	.1	1.7	1.5	.2
3643	Current carrying wiring devices (incl. lightning rods).	129	100.0	4.3	83.2	7.3	2.2	-	2.9	.1
3644	Noncurrent carrying wiring devices.....	186	100.0	13.2	70.3	7.6	.1	3.5	5.3	-
369	Miscellaneous electrical machinery, equipment and supplies....	1,031	100.0	4.0	68.3	25.8	.1	.5	1.2	.1
3691	Storage batteries and plates..	627	100.0	1.1	63.6	34.5	-	.5	.3	-
3694	Electrical equipment for internal combustion engines....	160	100.0	7.3	74.6	11.8	.2	1.4	4.2	.5
3699	Electrical machinery, equipment and supplies, n.e.c.....	83	100.0	.1	67.9	29.5	.8	-	1.7	-
	TON-MILES	(Millions of ton-miles)								
	Total.....	5,989	100.0	48.4	39.5	7.4	.5	.9	3.1	.2
	Total primary commodities ¹ ..	4,833	100.0	46.3	41.1	8.0	.5	.8	3.1	.2
	Total other commodities ² ...	1,156	100.0	57.5	32.7	5.2	.4	1.0	3.0	.2
	Selected Primary Commodities ³									
361	Electrical transmission and distribution equipment.....	551	100.0	25.7	45.3	22.9	1.3	-	4.7	.1
3611	Electrical measuring instruments and test equipment.....	45	100.0	52.7	31.2	.3	8.7	-	7.1	-
3612	Power, distribution and specialty transformers.....	307	100.0	21.5	54.0	19.8	.5	-	4.2	-
3613	Switchgear and switchboard apparatus.....	199	100.0	26.0	35.4	32.8	.9	-	4.8	.1

See footnotes at end of table.

TABLE 5. Tons and Ton-Miles of Shipments—Means of Transport and Commodity: 1963—Continued

TCC code	Commodity	Tons and ton-miles	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
		(Millions of ton-miles)								
362	Electrical industrial apparatus.	615	100.0	29.6	60.4	4.9	0.7	0.1	3.7	0.6
3621	Motors and generators.....	493	100.0	27.3	63.8	5.7	.5	.1	2.0	.6
3622	Industrial controls and parts.	46	100.0	3.8	66.8	1.2	2.9	-	25.3	-
363	Household appliances.....	2,161	100.0	76.3	17.8	2.7	.2	.1	2.7	.2
3631	Household cooking equipment, all types.....	375	100.0	77.7	18.9	1.2	-	.2	1.9	.1
3632	Household refrigerators, home and farm freezers, all types.	757	100.0	91.2	7.6	.6	-	-	.6	-
3634	Electric housewares and fans..	222	100.0	16.3	54.8	7.4	2.2	.1	18.5	.7
364	Electric lighting and wiring equipment.....	1,109	100.0	20.0	65.5	7.3	.6	3.3	3.1	.2
3641	Electric lamps and sealed beam lamps.....	75	100.0	77.6	15.2	3.0	.1	-	4.0	.1
3642	Lighting fixtures.....	821	100.0	14.4	70.8	8.4	.3	4.3	1.6	.2
3643	Current carrying wiring devices (incl. lightning rods).	82	100.0	5.2	79.3	6.3	5.0	-	4.2	-
3644	Noncurrent carrying wiring devices.....	131	100.0	31.3	52.9	3.7	.2	1.0	10.9	-
369	Miscellaneous electrical machinery, equipment and supplies....	395	100.0	9.8	64.6	22.7	.3	.1	2.4	.1
3691	Storage batteries and plates..	183	100.0	4.5	61.2	33.3	-	.1	.9	-
3694	Electrical equipment for internal combustion engines....	83	100.0	9.5	81.1	2.2	.2	.3	6.1	.6
3699	Electrical machinery, equipment and supplies, n.e.c.....	51	100.0	.3	50.9	45.4	1.1	-	2.3	-

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 361, 362, 363, 364, and 369.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 6. Tons of Shipments—Distance Shipped and
Commodity: 1963

TCC code	Commodity	Tons (thousands)	Percent distribution by distance of shipment								
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
	Total products shipped.	10,106	100.0	12.8	14.1	12.3	9.8	8.9	25.9	5.2	11.0
	Total primary com- modities ¹	8,099	100.0	11.1	14.3	12.9	9.4	9.1	26.9	5.6	10.7
	Total other com- modities ²	2,007	100.0	19.4	13.9	9.5	11.3	8.0	22.1	3.2	12.6
	Selected Primary Commodities ³										
361	Electrical transmission and distribution equipment....	1,024	100.0	7.5	26.3	14.6	7.8	9.0	21.3	3.6	9.9
3611	Electrical measuring in- struments and test equipment.....	39	100.0	6.0	2.8	9.0	17.9	3.2	19.9	5.8	35.4
3612	Power, distribution and specialty transformers..	506	100.0	10.1	6.6	20.4	10.1	9.7	27.3	4.0	11.8
3613	Switchgear and switch- board apparatus.....	478	100.0	4.9	49.4	8.8	4.4	8.6	15.2	2.9	5.8
362	Electrical industrial apparatus.....	1,257	100.0	9.6	22.1	17.3	9.9	7.4	22.2	4.5	7.0
3621	Motors and generators....	980	100.0	10.5	15.3	19.7	10.3	8.7	24.0	4.9	6.6
3622	Industrial controls and parts.....	88	100.0	14.5	12.7	10.2	14.1	4.9	33.9	4.4	5.3
363	Household appliances.....	3,031	100.0	6.2	9.3	9.8	9.6	7.4	37.2	7.0	13.5
3631	Household cooking equip- ment, all types.....	493	100.0	4.6	7.2	6.7	10.1	11.2	39.0	4.9	16.3
3632	Household refrigerators, home and farm freezers, all types.....	1,013	100.0	3.1	8.7	7.1	10.1	6.9	44.6	4.8	14.7
3634	Electric housewares and fans.....	274	100.0	8.3	8.9	10.7	9.0	6.3	29.7	8.1	19.0
364	Electric lighting and wiring equipment.....	1,754	100.0	12.8	7.4	13.1	11.2	13.9	23.1	6.5	12.0
3641	Electric lamps and sealed beam lamps.....	162	100.0	31.8	10.7	13.6	10.8	9.8	9.6	4.3	9.4
3642	Lighting fixtures.....	1,277	100.0	11.1	5.3	12.4	12.6	14.8	25.7	6.2	11.9
3643	Current carrying wiring devices (including lightening rods).....	129	100.0	12.3	13.5	13.8	6.8	7.3	30.3	5.4	10.6
3644	Noncurrent carrying wiring devices.....	186	100.0	8.0	14.6	17.4	4.8	15.5	13.0	11.4	15.3
369	Miscellaneous electrical machinery, equipment and supplies.....	1,031	100.0	28.3	19.0	15.1	6.6	7.8	14.5	3.4	5.3
3691	Storage batteries and plates.....	627	100.0	38.9	21.7	11.8	6.8	5.7	9.1	1.8	4.2
3694	Electrical equipment for internal combustion engines.....	160	100.0	16.2	13.3	11.6	6.5	18.3	21.0	6.2	6.9
3699	Electrical machinery, equipment and supplies, n.e.c.....	83	100.0	7.5	13.8	12.5	8.9	7.9	30.5	15.2	3.7

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 361, 362, 363, 364, and 369.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 7. Tons of Shipments—Means of Transport, Geographic Division of Origin, and Distance Shipped: 1963

Geographic division and distance	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
United States, total.....	10,106	100.0	34.0	49.5	13.4	0.2	0.4	2.2	0.3
Under 200 miles.....	2,724	100.0	16.7	53.9	27.0	-	.5	1.5	.4
200 to 399 miles.....	2,226	100.0	19.5	64.9	13.9	.1	-	1.1	.5
400 to 599 miles.....	1,604	100.0	39.4	51.9	7.2	.2	-	1.1	.2
600 to 999 miles.....	1,915	100.0	50.8	39.9	4.8	.3	-	4.0	.2
1,000 miles and over.....	1,637	100.0	57.3	30.1	6.2	.7	1.7	3.8	.2
New England and Middle Atlantic.....	2,759	100.0	20.1	63.3	11.7	.2	1.4	2.5	.8
Under 200 miles.....	969	100.0	10.4	59.9	25.2	.1	1.1	2.4	.9
200 to 399 miles.....	554	100.0	12.2	75.4	9.2	.1	-	1.8	1.3
400 to 599 miles.....	264	100.0	6.6	87.1	4.3	.2	-	1.7	.1
600 to 999 miles.....	445	100.0	24.3	70.1	3.2	.5	-	1.4	.5
1,000 miles and over.....	527	100.0	49.6	38.9	.5	.4	5.2	4.8	.6
East North Central and West North Central.....	5,714	100.0	39.5	43.4	14.4	.2	-	2.3	.2
Under 200 miles.....	1,514	100.0	21.9	48.5	28.7	-	-	.8	.1
200 to 399 miles.....	1,288	100.0	21.4	60.3	16.8	.1	-	1.0	.4
400 to 599 miles.....	1,092	100.0	47.3	44.0	7.3	.2	-	1.0	.2
600 to 999 miles.....	1,060	100.0	58.2	31.1	4.1	.3	-	6.3	-
1,000 miles and over.....	760	100.0	68.0	20.9	6.3	.6	.1	4.1	-
South Atlantic, East South Central and West South Central.....	1,343	100.0	45.6	39.9	13.6	.1	-	.8	-
Under 200 miles.....	164	100.0	12.4	60.6	26.2	-	-	.8	-
200 to 399 miles.....	325	100.0	26.9	59.9	12.5	-	-	.7	-
400 to 599 miles.....	242	100.0	40.8	48.2	10.0	-	-	1.0	-
600 to 999 miles.....	371	100.0	67.1	23.3	9.0	.1	-	.4	.1
1,000 miles and over.....	241	100.0	64.8	16.3	17.4	.2	-	1.3	-
Mountain and Pacific ¹	290	100.0	3.1	82.6	7.8	1.8	1.6	3.1	-
Under 200 miles.....	77	100.0	3.5	71.2	15.8	.2	5.0	4.3	-
200 to 999 miles.....	104	100.0	2.4	91.6	1.9	.7	.6	2.8	-
1,000 miles and over.....	109	100.0	3.4	82.4	7.8	3.9	-	2.5	-

¹No data were obtained on shipments originating in Alaska and Hawaii.

CENSUS GEOGRAPHIC DIVISIONS

New England—Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut
Middle Atlantic—New York, New Jersey, Pennsylvania
East North Central—Ohio, Indiana, Illinois, Michigan, Wisconsin
West North Central—Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, Kansas
South Atlantic—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida
East South Central—Kentucky, Tennessee, Alabama, Mississippi
West South Central—Arkansas, Louisiana, Oklahoma, Texas
Mountain—Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada
Pacific—Washington, Oregon, California, Alaska, Hawaii

TABLE 8. **Tons and Ton-Miles of Shipments—Means of Transport and Geographic Division of Origin: 1963**

Geographic division of origin	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
United States, total.....	10,106	100.0	34.0	49.5	13.4	0.2	0.4	2.2	0.3
Shipments originating from—									
New England.....	433	100.0	8.7	61.3	20.8	.3	6.0	2.4	.5
Middle Atlantic.....	2,326	100.0	22.3	63.6	10.0	.2	.5	2.5	.9
East North Central.....	5,186	100.0	39.7	42.4	15.2	.2	-	2.3	.2
West North Central.....	528	100.0	37.3	52.9	6.8	.1	-	2.6	.3
South Atlantic.....	196	100.0	29.8	44.8	21.0	.2	-	4.2	-
East South Central.....	914	100.0	58.3	30.9	10.6	-	-	.1	.1
West South Central.....	233	100.0	8.4	71.3	19.6	.2	-	.5	-
Mountain.....	290	100.0	3.1	82.6	7.8	1.8	1.6	3.1	-
Pacific ¹									
TON-MILES	(Millions of ton-miles)								
United States, total.....	5,989	100.0	48.4	39.5	7.4	.5	.9	3.1	.2
Shipments originating from—									
New England.....	253	100.0	23.4	52.6	4.2	.4	14.3	4.4	.7
Middle Atlantic.....	1,457	100.0	41.2	50.8	3.0	.3	.9	3.3	.5
East North Central.....	2,711	100.0	55.6	31.7	8.6	.4	.1	3.5	.1
West North Central.....	380	100.0	48.6	42.3	5.1	.1	-	3.8	.1
South Atlantic.....	129	100.0	32.4	47.8	13.9	.4	-	5.5	-
East South Central.....	692	100.0	70.9	18.0	10.9	-	-	.1	.1
West South Central.....	107	100.0	9.7	63.1	26.2	.4	-	.6	-
Mountain.....	260	100.0	2.8	83.9	6.8	3.6	.2	2.7	-
Pacific ¹									

¹No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 9. Tons and Ton-Miles of Shipments—Geographic Division of Destination and of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by geographic division of destination									
		All divisions	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific ¹
TONS OF SHIPMENTS	(Thousands of tons)										
United States, total.....	10,106	100.0	5.5	18.9	29.6	7.9	11.7	5.7	7.4	2.6	10.7
Shipments originating from—											
New England.....	433	100.0	37.5	19.9	10.7	3.0	9.0	3.0	9.1	.9	6.9
Middle Atlantic.....	2,326	100.0	7.5	31.7	20.1	5.5	14.6	3.4	4.0	2.5	10.7
East North Central.....	5,186	100.0	3.3	15.2	40.6	7.7	10.3	6.3	6.8	1.9	7.9
West North Central.....	528	100.0	1.4	12.6	23.7	14.5	8.7	7.2	14.2	4.6	13.1
South Atlantic.....	196	100.0	3.3	23.2	14.6	5.0	25.7	8.6	4.4	.7	14.5
East South Central.....	914	100.0	3.7	17.4	15.1	10.5	14.7	9.4	10.2	5.3	13.7
West South Central.....	233	100.0	.8	3.1	24.6	28.3	9.6	3.7	25.5	3.1	1.3
Mountain.....	290	100.0	.4	5.7	11.9	3.1	6.5	1.3	9.0	5.5	56.6
Pacific ²											
TON-MILES	(Millions of ton-miles)										
United States, total.....	5,989	100.0	3.8	12.1	12.6	7.1	11.5	4.3	11.0	5.9	31.7
Shipments originating from—											
New England.....	253	100.0	5.0	6.1	12.6	5.7	8.2	4.9	24.4	2.9	30.2
Middle Atlantic.....	1,457	100.0	3.1	6.2	13.4	7.6	11.6	3.7	7.9	7.4	39.1
East North Central.....	2,711	100.0	4.6	14.6	12.3	7.0	11.6	5.0	11.2	4.8	28.9
West North Central.....	380	100.0	2.2	16.2	13.4	4.4	9.4	5.0	13.6	6.8	29.0
South Atlantic.....	129	100.0	2.9	12.4	8.2	5.4	10.0	6.2	6.1	1.5	47.3
East South Central.....	692	100.0	4.2	14.9	6.5	6.5	11.4	3.0	9.4	9.5	34.6
West South Central.....	107	100.0	2.3	7.5	19.5	27.6	17.2	3.8	12.9	5.4	3.8
Mountain.....	260	100.0	1.2	14.6	23.5	4.9	15.9	2.5	14.5	3.6	19.3
Pacific ²											

¹Shipments to Alaska and Hawaii from the 48 conterminous States and the District of Columbia are included.

²No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 10. **Tons and Ton-Miles of Shipments—Means of Transport and Employment Size of Establishment: 1963**

Employment size of establishment	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
Total.....	10,106	100.0	34.0	49.5	13.4	0.2	0.4	2.2	0.3
Number of employees—									
Under 20 employees.....	432	100.0	.7	95.0	2.6	.1	.3	1.3	-
20 to 99 employees.....	855	100.0	1.0	51.4	41.8	.2	2.9	2.0	.7
100 to 499 employees.....	2,358	100.0	17.2	55.5	23.8	.3	.3	2.8	.1
500 employees and over.....	6,461	100.0	46.7	43.9	6.5	.2	.2	2.1	.4
TON-MILES	(Millions of ton-miles)								
Total.....	5,989	100.0	48.4	39.5	7.4	.5	.9	3.1	.2
Number of employees—									
Under 20 employees.....	294	100.0	1.0	97.4	.2	.2	-	1.2	-
20 to 99 employees.....	356	100.0	1.8	57.8	26.3	.5	10.0	2.4	1.2
100 to 499 employees.....	1,204	100.0	27.6	51.2	16.3	.7	.5	3.6	.1
500 employees and over.....	4,135	100.0	61.9	30.4	3.8	.4	.2	3.1	.2

TABLE 11. **Tons of Shipments—Distance Shipped and Employment Size of Establishment: 1963**

Employment size of establishment	Tons (thousands)	Percent distribution by distance of shipment								
		All distances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
Total tons.....	10,106	100.0	12.8	14.1	12.3	9.8	8.9	25.9	5.2	11.0
Number of employees—										
Under 20 employees.....	432	100.0	15.5	5.6	12.1	7.5	4.0	37.0	7.3	11.0
20 to 99 employees.....	855	100.0	23.8	34.5	6.5	7.4	3.3	11.7	3.6	9.2
100 to 499 employees.....	2,358	100.0	16.8	12.7	12.4	10.7	13.8	20.4	5.5	7.7
500 employees and over.....	6,461	100.0	9.7	12.6	13.0	9.9	8.1	29.1	5.1	12.5

TABLE 12. **Tons of Shipments—Distance Shipped and
Production Area of Origin: 1963**

Production Area of origin	Tons (thousands)	Percent distribution by distance of shipment							
		All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
Total tons.....	10,106	100.0	12.8	14.1	12.3	18.7	25.9	5.2	11.0
Production Areas ¹ —									
1.....	157	100.0	52.9	24.3	5.1	4.6	8.3	2.0	2.8
2.....	152	100.0	19.1	12.2	6.4	11.2	25.0	12.4	13.7
3.....	131	100.0	29.3	22.1	4.6	7.9	19.8	7.8	8.5
5.....	183	100.0	25.4	10.1	8.5	10.3	26.7	7.7	11.3
7.....	364	100.0	38.3	25.7	15.4	10.3	9.1	.9	.3
11.....	523	100.0	18.8	7.0	12.8	31.0	11.4	7.6	11.4
12.....	393	100.0	9.7	11.5	13.5	25.7	19.3	8.7	11.6
14.....	546	100.0	10.3	9.5	13.6	22.2	32.2	1.1	11.1
15.....	499	100.0	11.0	9.2	13.0	16.6	36.6	3.9	9.7
16.....	283	100.0	14.4	5.9	8.4	9.7	41.9	9.6	10.1
18.....	137	100.0	.4	3.4	14.5	38.4	21.1	1.9	20.3
24.....	74	100.0	30.1	15.6	9.2	16.8	12.2	1.7	14.4
25.....	144	100.0	19.5	1.6	1.0	18.9	9.6	7.0	42.4
Balance of Production Areas.....	1,291	100.0	14.0	7.2	13.1	14.9	31.6	7.8	11.4
SMSA's outside Production Areas.	1,825	100.0	6.2	15.8	15.5	15.8	31.8	4.4	10.5
Balance of United States.....	3,404	100.0	9.4	18.8	11.1	21.3	23.9	4.4	11.1

¹For description of Production Areas, see map in appendix C.

TABLE 13. **Tons and Ton-Miles of Shipments—Area of Destination
and of Origin: 1963**

Area of origin	Tons and ton-miles	Percent distribution by area of destination			
		All areas of destination	Production Areas	SMSA's outside Production Areas	Areas outside SMSA's
TONS OF SHIPMENTS	(Thousands of tons)				
United States, total.....	10,106	100.0	55.4	23.6	21.0
In Production Areas.....	4,877	100.0	59.7	20.3	20.0
In SMSA's outside Production Areas.....	1,825	100.0	55.2	28.0	16.8
Outside of SMSA's.....	3,404	100.0	49.4	25.9	24.7
TON-MILES	(Millions of ton- miles)				
United States, total.....	5,989	100.0	57.5	25.2	17.3
In Production Areas.....	2,918	100.0	57.6	23.6	18.8
In SMSA's outside Production Areas.....	1,092	100.0	56.6	28.1	15.3
Outside of SMSA's.....	1,979	100.0	57.7	26.0	16.3

Shipper Group 22

Motor Vehicles and Equipment

Data for Shipper Group 22 are based on a probability sample of 35,176 shipments reported by 271 establishments. The shipper group has been divided into two subgroups which can be closely related to industries classified in the Standard Industrial Classification (SIC). (This is the system of industrial classification developed over a period of years by experts on classification in government and private industry under the guidance of the Bureau of the Budget.) The subgroup and related SIC industries are as follows:

Shipper Subgroup 221.—Truck and bus bodies and truck trailers
 SIC 3713.—Truck and bus bodies
 SIC 3715.—Truck trailers

Shipper Subgroup 222.—Motor vehicles, passenger car bodies and body parts, and motor vehicle parts and accessories
 SIC 3711.—Motor vehicles
 SIC 3712.—Passenger car bodies
 SIC 3714.—Motor vehicle parts and accessories

Commodities primary to these industries are classified in the following Transportation Commodity Classification (TCC):¹

TCC 371.—Motor vehicles and motor vehicle equipment

Data for these commodities are included in the Commodity Series chapter: Commodity Group 37, Transportation Equipment.

¹ See *Commodity Classification for Transportation Statistics, 1963, Executive Office of the President, Bureau of the Budget.*

Because the data are based on a probability sample, they are subject to sampling variability. The term "sampling variability" refers to the differences that would be expected between results of a sample survey and results that would have been obtained from a complete enumeration of plants and shipping documents. Estimates of sampling variability for Shipper Group 22 on total tons and on key items, are shown below:

Item	Estimated tons based on sample (thousands)	Sampling variability (percent)
Total tons.....	34,717	3.7
SHIPPER SUBGROUPS		
221 Truck and bus bodies and truck trailers.....	1,534	10.6
222 Motor vehicles, passenger car bodies and body parts, and motor vehicle parts and accessories.....	33,183	3.9
MEANS OF TRANSPORT		
Rail.....	17,777	5.4
Motor carrier.....	14,651	4.7
Private truck.....	1,979	31.4
Other.....	310	13.6
ORIGIN OF SHIPMENT (Geographic Division)		
New England and Middle Atlantic.....	3,752	14.2
East North Central.....	25,040	4.8
West North Central.....	2,521	14.9
South Atlantic.....	1,250	26.2
East South Central.....	634	27.6
West South Central.....	291	56.3
Mountain and Pacific.....	1,229	23.8

TABLE 1. **Tons and Ton-Miles of Shipments—Means of Transport and Shipper Subgroup: 1963**

Shipper subgroup	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
22 Motor vehicles and equipment.....	34,717	100.0	51.2	42.2	5.7	0.1	0.2	0.4	0.2
221 Truck and bus bodies and truck trailers.....	1,534	100.0	8.4	47.5	39.8	-	.2	3.5	.6
222 Motor vehicles, passenger car bodies and body parts, motor vehicle parts and accessories.	33,183	100.0	53.2	42.0	4.1	.1	.2	.2	.2
TON-MILES	(Millions of ton-miles)								
22 Motor vehicles and equipment.....	15,877	100.0	69.8	26.2	2.9	.1	.3	.5	.2
221 Truck and bus bodies and truck trailers.....	757	100.0	17.2	46.8	31.3	.1	.4	3.6	.6
222 Motor vehicles, passenger car bodies and body parts, motor vehicle parts and accessories.	15,120	100.0	72.6	25.2	1.4	.1	.2	.3	.2

TABLE 2. **Tons of Shipments—Means of Transport and Distance Shipped: 1963**

Distance shipped ¹	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
All distances.....	34,717	100.0	51.2	42.2	5.7	0.1	0.2	0.4	0.2
Under 50 miles.....	3,557	100.0	32.4	49.1	17.7	-	.1	.7	-
50 to 99 miles.....	3,639	100.0	27.5	67.5	4.3	-	.1	.3	.3
100 to 199 miles.....	5,265	100.0	27.7	59.5	12.3	-	-	.4	.1
200 to 299 miles.....	4,907	100.0	43.7	53.6	2.0	.1	.3	.2	.1
300 to 399 miles.....	2,703	100.0	43.9	52.2	2.7	.1	.4	.5	.2
400 to 499 miles.....	4,488	100.0	71.2	26.3	1.8	.1	.3	.2	.1
500 to 599 miles.....	2,590	100.0	69.0	24.8	3.9	.1	.8	.1	1.3
600 to 799 miles.....	2,867	100.0	69.5	26.4	3.2	.2	.4	.2	.1
800 to 999 miles.....	1,052	100.0	74.1	20.8	4.6	.1	-	.4	-
1,000 to 1,499 miles.....	1,033	100.0	75.2	21.1	2.5	-	.3	.7	.2
1,500 miles and over.....	2,616	100.0	88.1	10.0	.8	.2	.1	.8	-

NOTE: Percent distributions by ton-miles are about the same as those for tons because data are grouped in mileage blocks.

¹Distances of shipments to foreign destinations are calculated only to the American port of exit.

TABLE 3. Tons and Ton-Miles of Shipments—Means of Transport and Weight: 1963

Weight	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS		(Thousands of tons)							
Total.....	¹ 18,559	100.0	54.4	39.7	5.0	0.1	-	0.5	0.3
Shipments—									
Under 1,000 pounds.....	292	100.0	1.5	75.9	14.8	1.9	0.4	5.3	.2
Under 50 pounds.....	9	100.0	.7	36.3	18.2	3.0	.1	41.5	.2
50 to 99 pounds.....	16	100.0	.4	68.6	12.9	2.2	-	15.9	-
100 to 199 pounds.....	32	100.0	1.0	78.8	11.2	3.8	.1	5.1	-
200 to 499 pounds.....	125	100.0	.8	72.2	20.7	1.5	.2	4.5	.1
500 to 999 pounds.....	110	100.0	2.8	83.4	9.1	1.6	.8	1.9	.4
1,000 to 9,999 pounds.....	5,717	100.0	25.4	70.4	3.2	.1	.1	.7	.1
1,000 to 1,999 pounds.....	169	100.0	2.7	84.1	8.7	1.8	.4	2.3	-
2,000 to 2,999 pounds.....	886	100.0	44.8	51.6	2.2	.1	.3	1.0	-
3,000 to 4,999 pounds.....	3,524	100.0	25.0	73.7	.7	-	-	.5	.1
5,000 to 9,999 pounds.....	1,138	100.0	14.9	72.3	11.1	.2	.1	1.1	.3
10,000 to 29,999 pounds.....	3,948	100.0	44.9	42.1	11.9	-	.1	.9	.1
10,000 to 19,999 pounds.....	1,714	100.0	30.6	50.7	16.8	-	-	1.6	.3
20,000 to 29,999 pounds.....	2,234	100.0	55.7	35.5	8.2	.1	.1	.4	-
30,000 to 59,999 pounds.....	3,957	100.0	62.9	30.8	5.5	-	-	.1	.7
60,000 pounds and over.....	4,645	100.0	94.0	5.5	.1	-	-	-	.4
TON-MILES		(Millions of ton-miles)							
Total.....	¹ 9,072	100.0	70.6	25.3	3.0	.2	.1	.5	.3
Shipments—									
Under 1,000 pounds.....	130	100.0	3.8	78.8	4.0	3.5	.5	9.2	.2
Under 50 pounds.....	3	100.0	1.1	40.0	3.7	7.2	.3	47.5	.2
50 to 99 pounds.....	6	100.0	1.1	66.2	2.7	4.8	-	25.1	.1
100 to 199 pounds.....	14	100.0	1.6	75.8	3.1	8.2	.4	10.9	-
200 to 499 pounds.....	50	100.0	2.2	78.8	5.8	3.1	.3	9.8	-
500 to 999 pounds.....	57	100.0	6.2	82.9	2.8	2.5	.8	4.4	.4
1,000 to 9,999 pounds.....	2,514	100.0	48.1	48.0	2.6	.4	.1	.6	.2
1,000 to 1,999 pounds.....	79	100.0	8.1	80.3	4.4	3.1	.4	3.7	-
2,000 to 2,999 pounds.....	410	100.0	68.6	29.0	.6	.4	.2	1.2	-
3,000 to 4,999 pounds.....	1,442	100.0	52.0	46.9	.7	.1	-	.2	.1
5,000 to 9,999 pounds.....	583	100.0	29.7	60.1	8.2	.7	.2	.6	.5
10,000 to 29,999 pounds.....	2,005	100.0	60.7	30.8	7.4	-	.1	.9	.1
10,000 to 19,999 pounds.....	755	100.0	46.4	39.8	11.9	-	-	1.6	.3
20,000 to 29,999 pounds.....	1,250	100.0	69.4	25.4	4.6	.1	.1	.4	-
30,000 to 59,999 pounds.....	2,168	100.0	82.6	14.4	2.3	-	-	.2	.5
60,000 pounds and over.....	2,255	100.0	97.1	2.4	-	-	-	-	.5

NOTE: Because of rounding, detail may not add to total.

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 4. Tons of Shipments—Means of Transport,
Distance Shipped, and Weight: 1963

Distance and weight	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS									
Total.....	18,559	100.0	54.4	39.7	5.0	0.1	-	0.5	0.3
Under 200 miles.....	6,548	100.0	38.0	53.1	8.1	-	-	.6	.2
Under 1,000 pounds.....	115	100.0	.2	65.4	30.6	.2	0.6	2.9	.1
1,000 to 9,999 pounds.....	1,897	100.0	2.7	91.3	4.6	-	-	1.3	.1
10,000 to 29,999 pounds.....	1,301	100.0	22.8	56.6	19.6	-	-	1.0	-
30,000 pounds and over.....	3,235	100.0	66.2	28.7	4.8	-	-	-	.3
200 to 399 miles.....	3,257	100.0	38.0	57.3	3.6	.1	.1	.7	.2
Under 1,000 pounds.....	69	100.0	1.6	86.2	6.7	.8	-	4.6	.1
1,000 to 9,999 pounds.....	1,515	100.0	11.6	85.6	2.3	-	.2	.3	-
10,000 pounds and over.....	1,673	100.0	63.4	30.6	4.6	.1	-	.9	.4
400 to 599 miles.....	4,596	100.0	72.1	23.7	3.1	.1	-	.2	.8
Under 1,000 pounds.....	44	100.0	1.1	82.1	5.7	5.7	-	4.5	.9
1,000 to 9,999 pounds.....	1,139	100.0	45.0	51.4	2.7	.2	-	.6	.1
10,000 pounds and over.....	3,413	100.0	81.9	13.7	3.2	-	.1	-	1.1
600 to 999 miles.....	1,987	100.0	60.5	34.1	4.8	.1	-	.4	.1
Under 1,000 pounds.....	31	100.0	.6	87.2	.7	2.4	.1	8.9	.1
1,000 pounds and over.....	1,956	100.0	61.4	33.3	4.9	.1	-	.2	.1
1,000 miles and over.....	2,171	100.0	85.0	12.3	1.6	.2	.1	.7	.1
Under 1,000 pounds.....	33	100.0	7.6	72.4	1.7	4.2	1.3	12.8	-
1,000 pounds and over.....	2,138	100.0	86.1	11.4	1.6	.2	.1	.5	.1

NOTE: Because of rounding, detail may not add to total.

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 5. Tons and Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons and ton-miles	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
	TONS OF SHIPMENTS	(Thousands of tons)								
	Total products shipped.....	34,717	100.0	51.2	42.2	5.7	0.1	0.2	0.4	0.2
	Total primary commodities ¹ ..	29,549	100.0	51.1	43.0	5.0	.1	.3	.3	.2
	Total other commodities ² ...	5,168	100.0	51.1	37.8	9.9	.1	-	.9	.2
	Selected Primary Commodities ³									
371	Motor vehicles and motor vehicle equipment.....	29,549	100.0	51.1	43.0	5.0	.1	.3	.3	.2
3711	Motor vehicles.....	13,724	100.0	33.8	64.7	.5	-	.6	.2	.2
3712	Passenger car bodies and body parts.....	3,180	100.0	92.8	6.7	.3	.2	-	-	-
3713	Truck and bus bodies and body parts.....	909	100.0	4.1	23.5	69.1	-	.3	2.4	.6
3714	Motor vehicle parts and accessories.....	11,005	100.0	66.8	27.8	4.7	.1	-	.3	.3
3715	Truck trailers.....	606	100.0	9.0	49.7	41.1	-	.1	-	.1
	TON-MILES	(Millions of ton-miles)								
	Total.....	15,877	100.0	69.8	26.2	2.9	.1	.3	.5	.2
	Total primary commodities ¹ ..	14,390	100.0	72.2	24.4	2.5	.1	.3	.3	.2
	Total other commodities ² ...	1,487	100.0	48.0	43.4	6.3	.3	.1	1.7	.2
	Selected Primary Commodities ³									
371	Motor vehicles and motor vehicle equipment.....	14,390	100.0	72.2	24.4	2.5	.1	.3	.3	.2
3711	Motor vehicles.....	6,137	100.0	63.3	35.4	.4	-	.5	.2	.2
3712	Passenger car bodies and body parts.....	1,927	100.0	96.5	3.0	.1	.4	-	-	-
3713	Truck and bus bodies and body parts.....	331	100.0	11.4	33.1	50.7	-	1.0	3.3	.5
3714	Motor vehicles parts and accessories.....	5,660	100.0	79.8	18.2	1.2	.1	-	.5	.2
3715	Truck trailers.....	284	100.0	17.1	48.0	34.9	-	-	-	-

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) code 371.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 6. Tons of Shipments—Distance Shipped and
Commodity: 1963

TCC code	Commodity	Tons (thousands)	Percent distribution by distance of shipment								
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
	Total products shipped.	34,717	100.0	20.8	15.2	14.1	7.8	12.9	18.7	3.0	7.5
	Total primary com- modities ¹	29,549	100.0	16.5	14.5	15.0	8.3	14.4	20.0	3.3	8.0
	Total other com- modities ²	5,168	100.0	44.9	19.2	8.9	5.0	4.7	11.3	1.2	4.8
	Selected Primary Commodities ³										
371	Motor vehicles and motor vehicle equipment.....	29,549	100.0	16.5	14.5	15.0	8.3	14.4	20.0	3.3	8.0
3711	Motor vehicles.....	13,724	100.0	19.8	14.1	15.2	10.3	10.0	21.0	3.7	5.9
3712	Passenger car bodies and body parts.....	3,180	100.0	3.3	16.9	17.7	7.5	24.6	13.9	.7	15.4
3713	Truck and bus bodies and body parts.....	909	100.0	5.6	54.6	8.0	4.7	4.7	16.9	1.5	4.0
3714	Motor vehicle parts and accessories.....	11,005	100.0	17.4	11.1	14.6	6.2	17.7	20.2	3.6	9.2
3715	Truck trailers.....	606	100.0	15.3	13.5	13.7	8.1	11.9	27.7	6.2	3.6

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) code 371.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 7. Tons of Shipments—Means of Transport, Geographic Division of Origin, and Distance Shipped: 1963

Geographic division and distance	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
United States, total.....	34,717	100.0	51.2	42.2	5.7	0.1	0.2	0.4	0.2
Under 200 miles.....	12,461	100.0	29.0	58.8	11.5	-	.1	.5	.1
200 to 399 miles.....	7,610	100.0	43.8	53.0	2.3	.1	.4	.3	.1
400 to 599 miles.....	7,078	100.0	70.3	25.7	2.6	.1	.5	.2	.6
600 to 999 miles.....	3,919	100.0	70.8	24.9	3.6	.1	.3	.2	.1
1,000 miles and over.....	3,649	100.0	84.3	13.2	1.3	.2	.1	.8	.1
New England and Middle Atlantic.....	3,752	100.0	43.9	52.1	2.9	-	-	1.0	.1
Under 200 miles.....	1,907	100.0	27.1	68.3	3.6	-	.1	.9	-
200 to 399 miles.....	1,004	100.0	61.0	34.5	3.0	.1	-	1.4	-
400 miles and over.....	841	100.0	61.3	36.1	1.5	.1	.1	.6	.3
East North Central and West North Central.....	27,561	100.0	56.3	37.7	5.1	.1	.3	.3	.2
Under 200 miles.....	9,083	100.0	34.0	52.2	13.3	-	-	.4	.1
200 to 399 miles.....	5,613	100.0	43.8	54.4	1.1	.1	.4	.1	.1
400 to 599 miles.....	6,355	100.0	74.3	23.3	1.1	.1	.5	.1	.6
600 to 999 miles.....	3,181	100.0	74.4	23.3	1.7	.1	.3	.2	-
1,000 miles and over.....	3,329	100.0	87.1	11.4	.6	.2	.1	.5	.1
South Atlantic, East South Central and West South Central.....	2,175	100.0	10.9	71.8	16.5	.1	.1	.4	.2
Under 200 miles.....	948	100.0	.8	89.0	9.7	-	.2	.1	.2
200 to 399 miles.....	575	100.0	13.7	73.1	12.4	-	-	.5	.3
400 miles and over.....	652	100.0	23.0	46.0	29.8	.2	-	.8	.2
Mountain and Pacific ¹	1,229	100.0	30.6	60.5	7.5	-	.6	.8	-
Under 200 miles.....	523	100.0	.4	85.9	12.5	-	.7	.5	-
200 to 599 miles.....	479	100.0	44.6	51.9	2.7	-	.7	.1	-
600 miles and over.....	227	100.0	70.6	19.9	6.3	.2	-	3.0	-

¹No data were obtained on shipments originating in Alaska and Hawaii.

CENSUS GEOGRAPHIC DIVISIONS

New England—Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut

Middle Atlantic—New York, New Jersey, Pennsylvania

East North Central—Ohio, Indiana, Illinois, Michigan, Wisconsin

West North Central—Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, Kansas

South Atlantic—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida

East South Central—Kentucky, Tennessee, Alabama, Mississippi

West South Central—Arkansas, Louisiana, Oklahoma, Texas

Mountain—Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada

Pacific—Washington, Oregon, California, Alaska, Hawaii

TABLE 8. Tons and Ton-Miles of Shipments—Means of Transport and Geographic Division of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
United States, total.....	34,717	100.0	51.2	42.2	5.7	0.1	0.2	0.4	0.2
Shipments originating from—									
New England.....	3,752	100.0	43.9	52.1	2.9	-	-	1.0	.1
Middle Atlantic.....		100.0	57.6	35.9	5.5	.1	.3	.3	.3
East North Central.....	25,040	100.0	42.3	55.3	2.0	-	.1	.3	-
West North Central.....	2,521	100.0	12.3	81.0	6.3	.1	.2	-	.1
South Atlantic.....	1,250	100.0	10.0	53.3	35.5	-	-	.9	.3
East South Central.....	634	100.0	6.7	73.3	18.5	.1	-	1.3	.1
West South Central.....	291	100.0	30.6	60.5	7.5	-	.6	.8	-
Mountain.....	1,229	100.0							
Pacific ¹		100.0							
TON-MILES	(Millions of ton-miles)								
United States, total.....	15,877	100.0	69.8	26.2	2.9	.1	.3	.5	.2
Shipments originating from—									
New England.....	1,153	100.0	61.6	35.0	1.9	.1	.1	1.2	.1
Middle Atlantic.....		100.0	75.3	22.0	1.8	.1	.3	.3	.2
East North Central.....	12,352	100.0	59.2	38.1	2.0	-	.3	.4	-
West North Central.....	1,215	100.0	24.0	66.8	8.7	.2	-	-	.3
South Atlantic.....	298	100.0	14.4	47.4	36.7	-	-	1.4	.1
East South Central.....	312	100.0	14.0	57.9	25.9	.2	-	2.0	-
West South Central.....	100	100.0	53.3	39.3	4.7	.1	.3	2.3	-
Mountain.....	447	100.0							
Pacific ¹		100.0							

¹No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 9. Tons and Ton-Miles of Shipments—Geographic Division of Destination and of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by geographic division of destination									
		All divisions	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific ¹
TONS OF SHIPMENTS	(Thousands of tons)										
United States, total.....	34,717	100.0	2.3	15.7	37.4	10.7	12.2	3.3	6.4	1.8	10.2
Shipments originating from—											
New England.....	3,752	100.0	9.9	45.0	20.8	4.3	14.7	1.1	1.4	.1	2.7
Middle Atlantic.....		100.0	1.5	12.2	46.1	11.2	11.8	2.7	4.3	1.0	9.2
East North Central.....	25,040	100.0	.2	7.0	16.0	26.8	1.1	8.0	29.4	8.0	3.5
West North Central.....	2,521	100.0	1.9	33.5	3.5	.8	49.3	7.7	3.2	—	.1
South Atlantic.....	1,250	100.0	1.3	13.1	32.1	7.1	11.7	20.8	8.3	.3	5.3
East South Central.....	634	100.0	.2	.4	3.0	5.7	2.2	2.7	74.9	9.1	1.8
West South Central.....	291	100.0	—	.8	.6	.9	1.1	.3	2.7	12.0	81.6
Mountain.....	1,229	100.0									
Pacific ²		100.0									
TON-MILES	(Millions of ton-miles)										
United States, total.....	15,877	100.0	2.1	11.5	13.2	11.0	12.4	2.7	10.7	3.9	32.5
Shipments originating from—											
New England.....	1,153	100.0	6.0	14.0	23.7	11.0	16.4	2.5	5.6	.8	20.0
Middle Atlantic.....		100.0	2.0	11.2	12.9	11.2	12.5	2.2	8.9	2.8	36.3
East North Central.....	12,352	100.0	.6	11.2	9.1	13.9	1.7	5.7	32.7	13.8	11.3
West North Central.....	1,215	100.0	2.2	20.9	7.0	3.0	49.8	8.6	7.4	.1	1.0
South Atlantic.....	298	100.0	2.8	18.9	21.5	8.0	12.4	8.5	7.1	.8	20.0
East South Central.....	312	100.0	.6	1.4	8.3	9.2	6.1	3.7	45.8	17.2	7.7
West South Central.....	100	100.0									
Mountain.....	447	100.0	.3	5.0	2.9	3.0	6.5	1.6	9.6	18.5	52.6
Pacific ²		100.0									

¹Shipments to Alaska and Hawaii from the 48 conterminous States and the District of Columbia are included.

²No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 10. Tons and Ton-Miles of Shipments—Means of Transport and Employment Size of Establishment: 1963

Employment size of establishment	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
Total.....	34,717	100.0	51.2	42.2	5.7	0.1	0.2	0.4	0.2
Number of employees—									
Under 20 employees.....	33	100.0	.4	53.4	39.0	.2	-	6.1	.9
20 to 99 employees.....	904	100.0	.2	37.2	59.4	.1	-	2.8	.3
100 to 499 employees.....	1,915	100.0	10.7	60.8	26.0	-	.1	2.3	.1
500 employees and over.....	31,865	100.0	55.1	41.2	2.9	.1	.3	.2	.2
TON-MILES	(Millions of ton-miles)								
Total.....	15,877	100.0	69.8	26.2	2.9	.1	.3	.5	.2
Number of employees—									
Under 20 employees.....	16	100.0	.3	83.6	7.3	.5	-	8.2	.1
20 to 99 employees.....	286	100.0	.2	57.1	38.3	.1	-	3.4	.9
100 to 499 employees.....	884	100.0	18.4	58.1	21.2	.1	-	2.1	.1
500 employees and over.....	14,691	100.0	74.4	23.6	1.1	.1	.3	.3	.2

TABLE 11. Tons of Shipments—Distance Shipped and Employment Size of Establishment: 1963

Employment size of establishment	Tons (thousands)	Percent distribution by distance of shipment								
		All distances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
Total tons.....	34,717	100.0	20.8	15.2	14.1	7.8	12.9	18.7	3.0	7.5
Number of employees—										
Under 20 employees.....	33	100.0	34.1	8.8	7.5	13.2	6.5	15.6	5.7	8.6
20 to 99 employees.....	904	100.0	10.9	54.5	9.8	3.7	4.0	10.9	4.2	2.0
100 to 499 employees.....	1,915	100.0	18.7	15.2	12.4	8.2	9.5	28.6	2.3	5.1
500 employees and over.....	31,865	100.0	21.0	14.1	14.4	7.9	13.4	18.4	3.0	7.8

TABLE 12. **Tons of Shipments—Distance Shipped and Production Area of Origin: 1963**

Production Area of origin	Tons (thousands)	Percent distribution by distance of shipment							
		All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
TONS OF SHIPMENTS									
Total.....	34,717	100.0	20.8	15.2	14.1	20.7	18.7	3.0	7.5
Production Areas ¹ —									
5.....	779	100.0	47.0	27.6	10.5	9.9	4.9	-	.1
11.....	2,562	100.0	19.5	21.3	7.3	29.1	11.6	3.8	7.4
13.....	12,041	100.0	18.7	9.9	11.5	26.4	18.8	3.2	11.5
14.....	1,501	100.0	6.8	15.4	19.1	20.7	27.0	5.3	5.7
15.....	1,267	100.0	24.7	12.7	24.8	8.3	14.6	.3	14.6
18.....	1,263	100.0	8.6	8.3	17.3	24.2	32.6	3.6	5.4
24.....	299	100.0	34.9	4.7	9.2	24.9	21.0	2.9	2.4
25.....	894	100.0	31.3	12.1	7.0	29.2	14.4	2.0	4.0
Balance of Production Areas.....	5,823	100.0	25.5	13.1	23.2	14.6	15.5	4.2	3.9
SMSA's outside Production Areas.	5,653	100.0	21.3	22.2	11.2	15.8	22.7	1.9	4.9
Balance of United States.....	2,635	100.0	18.5	25.5	13.5	15.0	19.9	1.9	5.7

¹For description of Production Areas, see map in appendix C.

TABLE 13. **Tons and Ton-Miles of Shipments—Area of Destination and of Origin: 1963**

Area of origin	Tons and ton-miles	Percent distribution by area of destination			
		All areas of destination	Production Areas	SMSA's outside Production Areas	Areas outside SMSA's
TONS OF SHIPMENTS	(Thousands of tons)				
United States, total.....	34,717	100.0	62.1	20.0	17.9
In Production Areas.....	26,429	100.0	63.6	19.7	16.7
In SMSA's outside Production Areas.....	5,653	100.0	57.5	20.9	21.6
Outside of SMSA's.....	2,635	100.0	57.2	20.9	21.9
TON-MILES	(Millions of ton- miles)				
United States, total.....	15,877	100.0	62.1	22.0	15.9
In Production Areas.....	12,540	100.0	63.5	21.5	15.0
In SMSA's outside Production Areas.....	2,265	100.0	58.2	24.3	17.5
Outside of SMSA's.....	1,072	100.0	54.6	22.2	23.2

Shipper Group 23

Transportation Equipment, Except Motor Vehicles

Data for Shipper Group 23 are based on a probability sample of 31,050 shipments reported by 270 establishments. The shipper group has been divided into three subgroups which can be closely related to industries classified in the Standard Industrial Classification (SIC). (This is the system of industrial classification developed over a period of years by experts on classification in government and private industry under the guidance of the Bureau of the Budget.) The subgroup and related SIC industries are as follows:

Shipper Subgroup 231.—Aircraft and parts
 SIC 3721.—Aircraft
 SIC 3722.—Aircraft engines and engine parts
 SIC 3723.—Aircraft propellers and propeller parts
 SIC 3729.—Aircraft parts and auxiliary equipment, n.e.c.

Shipper Subgroup 232.—Ships and boats
 SIC 3731.—Ship building and repairing
 SIC 3732.—Boat building and repairing

Shipper Subgroup 233.—Other transportation equipment and parts
 SIC 3741.—Locomotives and parts
 SIC 3742.—Railroad and street cars
 SIC 3751.—Motorcycles, bicycles, and parts
 SIC 3791.—Trailer coaches
 SIC 3799.—Transportation equipment, n.e.c.

Commodities primary to these industries are classified in the following Transportation Commodity Classifications (TCC):¹

TCC 372.—Aircraft and parts
 TCC 373.—Ships and boats
 TCC 374.—Railroad equipment
 TCC 375.—Motorcycles, bicycles, and parts (except velocipedes, tricycles, and parts)
 TCC 379.—Miscellaneous transportation equipment

Data for these commodities are included in the Commodity Series chapter: Commodity Group 37, Transportation Equipment.

¹See *Commodity Classification for Transportation Statistics, 1963, Executive Office of the President, Bureau of the Budget.*

Because the data are based on a probability sample, they are subject to sampling variability. The term "sampling variability" refers to the differences that would be expected between results of a sample survey and results that would have been obtained from a complete enumeration of plants and shipping documents. Estimates of sampling variability for Shipper Group 23 on total tons and on key items, are shown below:

Item	Estimated tons based on sample (thousands)	Sampling variability (percent)
Total tons.....	3,242	13.7
SHIPPER SUBGROUPS		
231 Aircraft and parts.....	572	13.6
232 Ships and boats.....	619	6.5
233 Other transportation equipment and parts.....	2,051	18.0
MEANS OF TRANSPORT		
Rail.....	1,150	15.0
Motor carrier.....	1,260	15.1
Private truck.....	703	22.5
Other.....	129	17.1
ORIGIN OF SHIPMENT (Geographic Division)		
New England.....	101	15.8
Middle Atlantic.....	424	24.0
East North Central.....	1,327	28.9
West North Central.....	269	45.3
South Atlantic.....	492	13.6
East South Central.....	187	20.8
West South Central.....	197	68.5
Mountain.....	8	50.0
Pacific.....	237	19.8

TABLE 1. **Tons and Ton-Miles of Shipments—Means of Transport and Shipper Subgroup: 1963**

Shipper subgroup	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
23 Transportation equipment, except motor vehicles.....	3,242	100.0	35.5	38.9	21.7	0.7	0.8	2.0	0.4
231 Aircraft and parts.....	572	100.0	16.7	69.0	4.4	3.9	.3	5.4	.3
232 Ships and boats.....	619	100.0	49.5	26.1	17.6	.2	3.6	1.9	1.1
233 Other transportation equipment and parts.....	2,051	100.0	36.6	34.3	27.8	-	.1	1.0	.2
TON-MILES	(Millions of ton-miles)								
23 Transportation equipment, except motor vehicles.....	1,445	100.0	33.0	44.0	16.0	2.1	.8	3.8	.3
231 Aircraft and parts.....	400	100.0	16.4	64.7	1.0	7.3	.8	9.6	.2
232 Ships and boats.....	156	100.0	42.1	26.8	23.2	.3	4.8	1.2	1.6
233 Other transportation equipment and parts.....	889	100.0	38.9	37.7	21.5	-	.1	1.6	.2

TABLE 2. **Tons of Shipments—Means of Transport and Distance Shipped: 1963**

Distance shipped ¹	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
All distances.....	3,242	100.0	35.5	38.9	21.7	0.7	0.8	2.0	0.4
Under 50 miles.....	443	100.0	28.6	44.2	25.3	.2	.3	1.3	.1
50 to 99 miles.....	374	100.0	53.5	21.2	21.3	.1	.5	3.3	.1
100 to 199 miles.....	434	100.0	32.4	39.3	23.7	.2	2.4	.8	1.2
200 to 299 miles.....	408	100.0	39.4	36.8	21.7	.4	-	.7	1.0
300 to 399 miles.....	298	100.0	29.5	37.9	30.7	.3	.3	.9	.4
400 to 499 miles.....	276	100.0	40.2	32.9	23.0	.2	3.2	.4	.1
500 to 599 miles.....	208	100.0	38.1	36.3	23.0	.6	-	1.9	.1
600 to 799 miles.....	286	100.0	31.6	40.3	24.8	.5	.1	2.4	.3
800 to 999 miles.....	156	100.0	32.6	48.5	15.4	1.7	-	1.8	-
1,000 to 1,199 miles.....	124	100.0	16.2	71.9	7.0	2.5	.2	2.1	.1
1,200 to 1,499 miles.....	64	100.0	38.8	41.3	8.4	1.9	.9	7.3	1.4
1,500 to 1,999 miles.....	98	100.0	33.7	47.0	7.9	2.9	.3	8.1	.1
2,000 miles and over.....	73	100.0	33.0	44.7	.7	8.5	2.6	10.5	-

NOTE: Percent distributions by ton-miles are about the same as those for tons because data are grouped in mileage blocks.

¹Distances of shipments to foreign destinations are calculated only to the American port of exit.

TABLE 3. Tons and Ton-Miles of Shipments—Means of Transport and Weight: 1963

Weight	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
Total.....	12,371	100.0	43.3	36.8	16.6	0.6	0.3	2.0	0.4
Shipments—									
Under 1,000 pounds.....	136	100.0	7.0	70.1	8.2	5.9	.4	8.3	.1
Under 50 pounds.....	7	100.0	2.7	18.7	21.3	14.2	-	42.8	.3
50 to 99 pounds.....	7	100.0	5.4	56.4	6.2	10.8	.1	20.9	.2
100 to 199 pounds.....	16	100.0	7.2	70.5	6.6	6.8	.6	8.1	.2
200 to 499 pounds.....	51	100.0	5.6	74.2	8.2	5.0	.7	6.2	.1
500 to 999 pounds.....	55	100.0	9.0	74.0	7.4	4.9	.2	4.4	.1
1,000 to 9,999 pounds.....	521	100.0	12.9	50.5	29.7	.9	.7	4.7	.6
1,000 to 1,999 pounds.....	116	100.0	7.0	49.4	31.9	2.0	.1	8.6	1.0
2,000 to 4,999 pounds.....	183	100.0	16.2	52.1	25.1	.8	.3	5.2	.3
5,000 to 9,999 pounds.....	222	100.0	13.3	49.5	32.3	.5	1.4	2.3	.7
10,000 to 29,999 pounds.....	599	100.0	16.6	49.3	31.8	.2	.4	1.4	.3
30,000 pounds and over.....	1,115	100.0	76.1	19.9	3.4	-	-	.2	.4
TON-MILES	(Millions of ton-miles)								
Total.....	11,004	100.0	41.4	40.5	11.8	2.0	.5	3.6	.2
Shipments—									
Under 1,000 pounds.....	86	100.0	7.0	68.2	2.0	11.7	.6	10.4	.1
Under 50 pounds.....	4	100.0	3.8	22.9	2.6	31.2	-	39.2	.3
50 to 99 pounds.....	5	100.0	6.3	50.7	2.8	20.5	.1	19.5	.1
100 to 199 pounds.....	11	100.0	7.2	65.7	2.1	12.6	1.0	11.4	-
200 to 499 pounds.....	32	100.0	6.5	71.2	2.4	9.9	1.3	8.6	.1
500 to 999 pounds.....	34	100.0	7.8	73.6	1.4	9.8	-	7.4	-
1,000 to 9,999 pounds.....	254	100.0	20.0	53.0	17.1	2.7	1.5	5.4	.3
1,000 to 1,999 pounds.....	54	100.0	10.7	56.0	17.5	4.6	-	10.8	.4
2,000 to 4,999 pounds.....	95	100.0	23.0	52.8	14.5	2.6	1.5	5.5	.1
5,000 to 9,999 pounds.....	105	100.0	22.2	51.4	19.2	1.9	2.3	2.6	.4
10,000 to 29,999 pounds.....	260	100.0	25.6	45.3	24.1	1.2	.4	3.2	.2
30,000 pounds and over.....	404	100.0	72.2	23.7	2.7	-	-	1.2	.2

NOTE: Because of rounding, detail may not add to total.

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 4. Tons of Shipments—Means of Transport,
Distance Shipped, and Weight: 1963

Distance and weight	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS									
Total.....	¹ 2,371	100.0	43.3	36.8	16.6	0.6	0.3	2.0	0.4
Under 200 miles.....	969	100.0	42.9	36.6	17.5	.2	.3	1.9	.6
Under 1,000 pounds.....	43	100.0	3.2	64.0	21.9	1.0	.4	9.3	.2
1,000 to 9,999 pounds.....	185	100.0	6.8	45.2	39.0	.1	1.2	7.1	.6
10,000 pounds and over.....	741	100.0	54.1	33.0	11.9	.1	.1	.2	.6
200 to 399 miles.....	534	100.0	44.8	32.6	21.0	.1	.2	.7	.6
Under 1,000 pounds.....	25	100.0	6.7	85.1	2.1	1.2	.1	4.8	-
1,000 pounds and over.....	509	100.0	46.5	30.0	22.0	.1	.2	.5	.7
400 to 599 miles.....	349	100.0	48.3	30.9	19.6	.3	-	.8	.1
Under 1,000 pounds.....	16	100.0	15.9	69.8	4.6	3.2	-	6.0	.5
1,000 pounds and over.....	333	100.0	49.9	29.0	20.4	.1	-	.5	.1
600 miles and over.....	519	100.0	39.2	45.4	8.5	2.3	.4	4.2	-
Under 1,000 pounds.....	52	100.0	7.4	67.6	1.2	13.0	.8	10.0	-
1,000 pounds and over.....	467	100.0	42.7	42.9	9.3	1.1	.4	3.6	-

NOTE: Because of rounding, detail may not add to total.

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 5. Tons and Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons and ton-miles	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
	TONS OF SHIPMENTS	(Thousands of tons)								
	Total products shipped.....	3,242	100.0	35.5	38.9	21.7	0.7	0.8	2.0	0.4
	Total primary commodities ¹ ..	1,815	100.0	27.9	36.1	33.0	.5	.3	1.8	.4
	Total other commodities ²	1,427	100.0	45.0	42.5	7.3	1.0	1.5	2.2	.5
	Selected Primary Commodities ³									
372	Aircraft and parts.....	149	100.0	16.8	69.1	3.0	5.1	-	6.0	-
3729	Aircraft parts and equipment, n.e.c.....	91	100.0	10.9	74.1	3.6	6.5	-	4.9	-
373	Ships and boats.....	148	100.0	5.4	23.4	63.3	-	2.1	3.8	2.0
374	Railroad equipment.....	483	100.0	78.6	20.0	.4	-	.1	.8	.1
3742	Railroad and street cars.....	358	100.0	88.1	10.5	.4	-	.1	.8	.1
375	Motorcycles, bicycles and parts (exc. velocipedes, tricycles and parts).....	231	100.0	26.4	54.7	13.5	-	.2	5.2	-
379	Miscellaneous transportation equipment.....	804	100.0	4.0	36.6	58.1	.3	.2	.4	.4
3791	Trailer coaches, housing type..	535	100.0	1.8	29.8	68.0	-	-	-	.4
3799	Transportation equipment,n.e.c.	269	100.0	8.3	50.3	38.7	.8	.5	1.0	.4
	TON-MILES	(Millions of ton-miles)								
	Total.....	1,445	100.0	33.0	44.0	16.0	2.1	.8	3.8	.3
	Total primary commodities ¹ ..	929	100.0	31.4	40.7	22.7	1.5	.6	2.8	.3
	Total other commodities ²	516	100.0	35.9	50.1	4.1	3.0	1.1	5.5	.3
	Selected Primary Commodities ³									
372	Aircraft and parts.....	132	100.0	14.7	68.4	.4	7.1	-	9.4	-
3729	Aircraft parts and equipment, n.e.c.....	79	100.0	8.1	76.1	.4	8.4	.1	6.9	-
373	Ships and boats.....	74	100.0	15.4	30.5	47.6	-	3.3	.7	2.5
374	Railroad equipment.....	205	100.0	86.6	11.9	-	-	-	1.4	.1
3742	Railroad and street cars.....	146	100.0	89.6	8.4	-	-	.1	1.8	.1
375	Motorcycles, bicycles and parts (exc. velocipedes, tricycles and parts).....	153	100.0	39.8	48.4	5.8	-	.3	5.7	-
379	Miscellaneous transportation equipment.....	365	100.0	6.2	45.5	45.5	1.3	.8	.4	.3
3791	Trailer coaches, housing type..	193	100.0	2.8	30.6	66.4	-	-	-	.2
3799	Transportation equipment,n.e.c.	173	100.0	10.0	62.1	22.2	2.8	1.7	.9	.3

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 372, 373, 374, 375, and 379.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 6. Tons of Shipments—Distance Shipped and
Commodity: 1963

TCC code	Commodity	Tons (thousands)	Percent distribution by distance of shipment								
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
	Total products shipped.	3,242	100.0	25.1	13.4	12.6	9.2	8.5	20.1	5.8	5.3
	Total primary com- modities ¹	1,815	100.0	15.7	10.9	15.1	12.6	8.7	24.0	7.7	5.3
	Total other com- modities ²	1,427	100.0	37.3	16.6	9.4	4.8	8.2	15.0	3.4	5.3
	Selected Primary Commodities ³										
372	Aircraft and parts.....	149	100.0	9.5	8.2	4.7	7.6	3.8	39.6	9.7	16.9
3729	Aircraft parts and equipment, n.e.c.....	91	100.0	10.0	8.1	6.4	9.1	3.3	37.5	9.3	16.3
373	Ships and boats.....	148	100.0	17.3	15.4	12.8	16.4	8.9	14.5	8.4	6.3
374	Railroad equipment.....	483	100.0	16.6	5.8	24.9	14.4	10.1	21.5	2.9	3.8
3742	Railroad and street cars.	358	100.0	12.1	4.2	27.9	16.8	12.4	21.7	2.5	2.4
375	Motorcycles, bicycles and parts (exc. velocipedes, tricycles and parts).....	231	100.0	15.1	11.1	9.0	9.0	10.1	24.6	8.9	12.2
379	Miscellaneous transporta- tion equipment.....	804	100.0	16.3	13.6	13.2	12.8	8.3	24.3	9.7	1.8
3791	Trailer coaches, housing type.....	535	100.0	16.5	18.3	16.5	13.3	10.5	21.9	1.8	1.2
3799	Transportation equipment, n.e.c.....	269	100.0	15.9	4.1	6.8	11.8	3.9	29.0	25.4	3.1

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 372, 373, 374, 375, and 379.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 7. **Tons of Shipments—Means of Transport, Geographic Division of Origin, and Distance Shipped: 1963**

Geographic division and distance	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
United States, total.....	3,242	100.0	35.5	38.9	21.7	0.7	0.8	2.0	0.4
Under 200 miles.....	1,251	100.0	37.3	35.6	23.6	.2	1.1	1.7	.5
200 to 399 miles.....	706	100.0	35.2	37.3	25.5	.3	.1	.8	.8
400 to 599 miles.....	484	100.0	39.3	34.3	23.0	.4	1.8	1.1	.1
600 to 999 miles.....	442	100.0	31.9	43.3	21.5	.9	-	2.2	.2
1,000 miles and over.....	359	100.0	28.4	54.2	6.2	3.7	.8	6.4	.3
New England and Middle Atlantic.....	525	100.0	30.0	45.7	17.8	1.0	.2	4.9	.4
Under 200 miles.....	172	100.0	27.2	43.0	26.6	.5	-	2.6	.1
200 to 399 miles.....	131	100.0	26.7	50.9	19.2	.9	-	1.6	.7
400 to 999 miles.....	129	100.0	35.6	45.9	11.6	.5	-	6.3	.1
1,000 miles and over.....	93	100.0	31.8	42.9	8.4	3.0	1.0	11.8	1.1
East North Central and West North Central.....	1,596	100.0	33.4	39.1	25.7	.3	-	1.1	.4
Under 200 miles.....	525	100.0	29.0	40.2	29.9	-	-	.5	.4
200 to 399 miles.....	429	100.0	42.3	32.9	23.2	.1	-	.5	1.0
400 to 599 miles.....	252	100.0	38.6	34.2	25.7	.4	-	1.0	.1
600 to 999 miles.....	235	100.0	27.9	36.5	33.6	.5	.1	1.1	.3
1,000 miles and over.....	155	100.0	23.7	63.1	6.7	1.4	.1	5.0	-
South Atlantic, East South Central and West South Central.....	876	100.0	49.2	29.3	17.1	.1	2.3	1.5	.5
Under 200 miles.....	474	100.0	55.7	24.8	14.0	-	2.2	2.5	.8
200 to 599 miles.....	268	100.0	37.0	32.1	27.3	.1	3.4	.1	-
600 to 999 miles.....	90	100.0	47.1	44.4	8.0	.2	-	.3	-
1,000 miles and over.....	44	100.0	57.4	30.1	7.9	1.7	1.4	1.3	.2
Mountain and Pacific ¹	245	100.0	11.5	57.9	20.2	5.0	2.0	3.2	.2
Under 200 miles.....	80	100.0	6.0	53.5	32.7	1.3	3.8	2.7	-
200 to 599 miles.....	50	100.0	1.3	55.8	36.3	2.5	1.2	2.2	.7
600 to 999 miles.....	48	100.0	25.6	58.2	9.3	4.7	-	2.2	-
1,000 miles and over.....	67	100.0	15.7	64.7	.9	11.4	1.9	5.4	-

¹No data were obtained on shipments originating in Alaska and Hawaii.

CENSUS GEOGRAPHIC DIVISIONS

New England—Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut

Middle Atlantic—New York, New Jersey, Pennsylvania

East North Central—Ohio, Indiana, Illinois, Michigan, Wisconsin

West North Central—Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, Kansas

South Atlantic—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida

East South Central—Kentucky, Tennessee, Alabama, Mississippi

West South Central—Arkansas, Louisiana, Oklahoma, Texas

Mountain—Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada

Pacific—Washington, Oregon, California, Alaska, Hawaii

TABLE 8. Tons and Ton-Miles of Shipments—Means of Transport and Geographic Division of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS		(Thousands of tons)							
United States, total.....	3,242	100.0	35.5	38.9	21.7	0.7	0.8	2.0	0.4
Shipments originating from—									
New England.....	101	100.0	13.0	68.5	7.9	2.9	-	7.7	-
Middle Atlantic.....	424	100.0	34.0	40.3	20.2	.6	.2	4.2	.5
East North Central.....	1,327	100.0	37.8	35.5	25.2	.2	-	.9	.4
West North Central.....	269	100.0	11.7	56.3	28.1	.9	-	2.4	.6
South Atlantic.....	492	100.0	54.1	26.2	16.1	.1	.2	2.5	.8
East South Central.....	187	100.0	46.0	38.8	4.8	.1	10.1	.2	-
West South Central.....	197	100.0	40.0	28.1	31.4	.2	.1	.2	-
Mountain.....	8	100.0	1.1	77.8	8.6	7.8	-	4.7	-
Pacific ¹	237	100.0	11.9	57.1	20.6	4.9	2.1	3.2	.2
TON-MILES		(Millions of ton-miles)							
United States, total.....	1,445	100.0	33.0	44.0	16.0	2.1	.8	3.8	.3
Shipments originating from—									
New England.....	83	100.0	11.0	71.3	1.0	4.9	-	11.8	-
Middle Atlantic.....	227	100.0	39.4	38.1	12.6	.9	.6	7.6	.8
East North Central.....	523	100.0	36.1	39.1	22.5	.4	.1	1.5	.3
West North Central.....	147	100.0	16.6	57.7	18.2	1.6	-	5.7	.2
South Atlantic.....	95	100.0	51.8	28.7	14.9	.9	1.2	1.6	.9
East South Central.....	76	100.0	47.6	41.4	4.0	.2	6.5	.3	-
West South Central.....	113	100.0	43.9	31.1	24.2	.3	.3	.2	-
Mountain.....	9	100.0	1.3	82.0	4.3	8.5	-	3.9	-
Pacific ¹	172	100.0	17.5	58.0	7.4	10.1	2.0	4.9	.1

¹No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 9. Tons and Ton-Miles of Shipments—Geographic Division of Destination and of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by geographic division of destination									
		All divisions	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific ¹
TONS OF SHIPMENTS	(Thousands of tons)										
United States, total.....	3,242	100.0	2.3	18.5	28.1	8.8	15.0	8.7	8.3	2.5	7.8
Shipments originating from—											
New England.....	101	100.0	17.4	23.8	6.0	2.6	25.8	1.0	11.7	.7	11.0
Middle Atlantic.....	424	100.0	3.2	39.8	19.2	4.7	15.4	3.1	6.1	.6	7.9
East North Central.....	1,327	100.0	2.2	9.7	46.7	7.5	10.4	10.7	9.8	1.1	1.9
West North Central.....	269	100.0	1.2	14.7	27.1	22.0	2.4	2.6	14.4	8.0	7.6
South Atlantic.....	492	100.0	.4	44.7	6.3	.2	39.8	4.7	2.1	.1	1.7
East South Central.....	187	100.0	3.0	4.9	14.2	1.9	22.3	41.4	7.0	2.7	2.6
West South Central.....	197	100.0	.3	1.1	32.9	29.0	1.6	8.8	16.3	3.7	6.3
Mountain.....	8	100.0	14.6	8.8	9.6	22.4	13.4	.8	6.7	1.9	21.8
Pacific ²	237	100.0	1.0	2.9	3.6	16.4	3.8	.4	3.5	11.8	56.6
TON-MILES	(Millions of ton-miles)										
United States, total.....	1,445	100.0	2.9	11.3	15.5	11.1	13.0	6.6	16.1	4.9	18.6
Shipments originating from—											
New England.....	83	100.0	1.6	5.5	5.1	3.7	24.6	1.1	22.3	1.7	34.4
Middle Atlantic.....	227	100.0	1.6	10.6	14.2	7.5	11.2	3.4	14.2	2.1	35.2
East North Central.....	523	100.0	3.6	9.8	15.7	9.4	13.2	10.5	25.0	3.7	9.1
West North Central.....	147	100.0	2.6	23.7	19.5	8.2	4.1	2.6	9.7	9.0	20.6
South Atlantic.....	95	100.0	1.0	23.5	12.5	1.1	24.0	5.2	10.3	1.7	20.7
East South Central.....	76	100.0	5.5	8.1	12.8	2.4	26.0	17.6	9.0	7.1	11.5
West South Central.....	113	100.0	.8	2.0	35.2	23.0	2.1	6.5	8.5	5.6	16.3
Mountain.....	9	100.0	24.0	14.2	8.9	18.5	18.8	.8	3.7	.2	10.9
Pacific ²	172	100.0	3.4	9.8	8.9	28.7	11.6	1.1	6.1	10.9	19.5

¹Shipments to Alaska and Hawaii from the 48 conterminous States and the District of Columbia are included.²No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 10. Tons and Ton-Miles of Shipments—Means of Transport and Employment Size of Establishment: 1963

Employment size of establishment	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS		(Thousands of tons)							
Total.....	3,242	100.0	35.5	38.9	21.7	0.7	0.8	2.0	0.4
Number of employees—									
Under 20 employees.....	40	100.0	-	8.1	73.2	-	4.5	14.2	
20 to 99 employees.....	535	100.0	39.8	19.4	37.6	-	-	2.7	.5
100 to 499 employees.....	1,103	100.0	17.0	46.9	33.9	.2	.2	1.5	.3
500 employees and over.....	1,564	100.0	47.8	40.7	6.3	1.4	1.5	1.8	.5
TON-MILES		(Millions of ton-miles)							
Total.....	1,445	100.0	33.0	44.0	16.0	2.1	.8	3.8	.3
Number of employees—									
Under 20 employees.....	8	100.0	-	8.8	44.5	-	1.2	45.5	-
20 to 99 employees.....	252	100.0	44.2	24.7	29.6	.1	-	1.2	.2
100 to 499 employees.....	525	100.0	20.6	51.2	25.3	.5	.3	1.6	.5
500 employees and over.....	660	100.0	39.0	46.1	3.1	4.1	1.5	6.0	.2

TABLE 11. Tons of Shipments—Distance Shipped and Employment Size of Establishment: 1963

Employment size of establishment	Tons (thousands)	Percent distribution by distance of shipment								
		All distances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
Total tons.....	3,242	100.0	25.1	13.4	12.6	9.2	8.5	20.1	5.8	5.3
Number of employees—										
Under 20 employees.....	40	100.0	50.1	28.7	6.8	6.8	1.3	2.7	.8	2.8
20 to 99 employees.....	535	100.0	11.1	10.5	22.1	11.7	14.1	21.5	4.1	4.9
100 to 499 employees.....	1,103	100.0	18.3	11.1	14.5	12.7	7.6	23.5	8.9	3.4
500 employees and over.....	1,564	100.0	34.4	15.6	8.1	5.9	7.4	17.5	4.3	6.8

TABLE 12. **Tons of Shipments—Distance Shipped and
Production Area of Origin: 1963**

Production Area of origin	Tons (thousands)	Percent distribution by distance of shipment							
		All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
TONS OF SHIPMENTS									
Total.....	3,242	100.0	25.1	13.4	12.6	17.7	20.1	5.8	5.3
Production Areas ¹ —									
2.....	74	100.0	17.1	7.1	6.3	3.7	32.0	10.3	23.5
11.....	128	100.0	18.6	8.6	11.4	32.6	17.1	6.8	4.9
25.....	106	100.0	32.0	7.0	3.2	22.2	11.4	5.4	18.8
Balance of Production Areas.....	1,368	100.0	38.9	9.4	14.1	11.4	16.5	3.5	6.2
SMSA's outside Production Areas.	595	100.0	10.7	24.6	9.3	23.3	24.0	4.5	3.6
Balance of United States.....	971	100.0	15.7	13.9	14.1	21.7	23.0	9.4	2.2

¹For description of Production Areas, see map in appendix C.

TABLE 13. **Tons and Ton-Miles of Shipments—Area of Destination
and of Origin: 1963**

Area of origin	Tons and ton-miles	Percent distribution by area of destination			
		All areas of destination	Production Areas	SMSA's outside Production Areas	Areas outside SMSA's
TONS OF SHIPMENTS	(Thousands of tons)				
United States, total.....	3,242	100.0	41.7	29.5	28.8
In Production Areas.....	1,676	100.0	52.9	25.3	21.8
In SMSA's outside Production Areas.....	595	100.0	31.3	36.5	32.2
Outside of SMSA's.....	971	100.0	28.5	32.6	38.9
TON-MILES	(Millions of ton- miles)				
United States, total.....	1,445	100.0	37.3	36.6	26.1
In Production Areas.....	738	100.0	43.0	34.2	22.8
In SMSA's outside Production Areas.....	267	100.0	32.7	35.6	31.7
Outside of SMSA's.....	440	100.0	30.6	41.2	28.2

Shipper Group 24

Instruments, Photographic Equipment, Watches, and Clocks

Data for Shipper Group 24 are based on a probability sample of 54,692 shipments reported by 450 establishments. The shipper group has been divided into four subgroups which can be closely related to industries classified in the Standard Industrial Classification (SIC). (This is the system of industrial classification developed over a period of years by experts on classification in government and private industry under the guidance of the Bureau of the Budget.) The subgroup and related SIC industries are as follows:

Shipper Subgroup 241.—Engineering, laboratory and scientific instruments

SIC 3811.—Engineering, laboratory, and scientific and research instruments and associated equipment

Shipper Subgroup 242.—Measuring, controlling and indicating instruments

SIC 3821.—Mechanical measuring and controlling instruments, except automatic temperature controls

SIC 3822.—Automatic temperature controls

Shipper Subgroup 243.—Optical, surgical, dental, ophthalmic, orthopedic and prosthetic instruments, appliances and supplies

SIC 3831.—Optical instruments and lenses

SIC 3841.—Surgical and medical instruments and apparatus

SIC 3842.—Orthopedic, prosthetic, and surgical appliances and supplies

SIC 3843.—Dental equipment and supplies

SIC 3851.—Ophthalmic goods

Shipper Subgroup 244.—Photographic equipment and supplies, and watches, clocks and clockwork-operated devices and parts

SIC 3861.—Photographic equipment and supplies

SIC 3871.—Watches, clocks, and parts except watchcases

SIC 3872.—Watchcases

Commodities primary to these industries are classified in the following Transportation Commodity Classifications (TCC):¹

TCC 381.—Engineering, laboratory, and scientific instruments

TCC 382.—Measuring, controlling, and indicating instruments

TCC 383.—Optical instruments and lenses

TCC 384.—Surgical, medical, and dental instruments and supplies

TCC 385.—Ophthalmic and opticians goods

TCC 386.—Photographic equipment and supplies

TCC 387.—Watches, clocks, and parts, and clockwork-operated devices and parts

Data for these commodities are included in the Commodity Series chapter: Commodity Group 38, Instruments, Photographic Goods, Optical Goods, Watches, and Clocks.

Because the data are based on a probability sample, they are subject to sampling variability. The term "sampling variability" refers to the differences that would be expected between results of a sample survey and results that would have been obtained from a complete enumeration of plants and shipping documents. Estimates of sampling variability for Shipper Group 24 on total tons and on key items, are shown below:

Item	Estimated tons based on sample (thousands)	Sampling variability (percent)
Total tons.....	1,423	3.9
SHIPPER SUBGROUPS		
241 Engineering, laboratory and scientific instruments.....	106	16.0
242 Measuring, controlling and indicating instruments.....	396	7.5
243 Optical, surgical, dental, ophthalmic, orthopedic and prosthetic instruments, appliances and supplies.....	327	11.3
244 Photographic equipment and supplies and watches, clocks and clockwork-operated devices and parts.....	594	8.4
MEANS OF TRANSPORT		
Rail.....	189	14.8
Motor carrier.....	992	6.3
Private truck.....	120	15.0
Other.....	122	9.1
ORIGIN OF SHIPMENT (Geographic Division)		
New England.....	107	16.8
Middle Atlantic.....	714	6.4
East North Central.....	337	8.6
West North Central.....	53	41.5
South Atlantic, East South Central, and West South Central.....	158	19.0
Mountain and Pacific.....	54	26.9

¹ See *Commodity Classification for Transportation Statistics, 1963, Executive Office of the President, Bureau of the Budget.*

TABLE 1. Tons and Ton-Miles of Shipments—Means of Transport and Shipper Subgroup: 1963

Shipper subgroup	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
24 Scientific and photographic equipment.....	1,423	100.0	13.3	69.8	8.4	1.2	0.2	7.0	0.1
241 Engineering, laboratory and scientific instruments.....	106	100.0	11.6	65.7	15.1	2.1	.2	5.1	.2
242 Measuring, controlling and indicating instruments.....	396	100.0	13.4	59.5	16.6	1.1	.2	9.1	.1
243 Optical, surgical, dental, ophthalmic, orthopedic and prosthetic instruments, appliances and supplies.....	327	100.0	1.6	84.2	3.8	1.0	.5	8.8	.1
244 Photographic equipment and supplies and watches, clocks and clockwork-operated devices and parts.....	594	100.0	20.0	69.2	4.3	1.2	.1	5.0	.2
TON-MILES	(Millions of ton-miles)								
24 Scientific and photographic equipment.....	1,015	100.0	28.2	57.8	3.4	2.1	.2	8.2	.1
241 Engineering, laboratory and scientific instruments.....	61	100.0	20.3	61.5	5.4	4.4	.2	8.1	.1
242 Measuring, controlling and indicating instruments.....	325	100.0	34.4	46.4	7.9	1.6	.1	9.4	.2
243 Optical, surgical, dental, ophthalmic, orthopedic and prosthetic instruments, appliances and supplies.....	190	100.0	2.6	79.6	2.4	2.0	.6	12.7	.1
244 Photographic equipment and supplies and watches, clocks and clockwork-operated devices and parts.....	439	100.0	35.8	56.0	.2	2.3	.2	5.4	.1

TABLE 2. **Tons of Shipments—Means of Transport and Distance Shipped: 1963**

Distance shipped ¹	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
All distances.....	1,423	100.0	13.3	69.8	8.4	1.2	0.2	7.0	0.1
Under 50 miles.....	119	100.0	.1	49.4	42.5	.3	.3	7.0	.4
50 to 99 miles.....	64	100.0	.9	86.6	5.0	.1	.4	6.7	.3
100 to 199 miles.....	143	100.0	1.2	84.0	9.4	.3	.6	4.5	-
200 to 299 miles.....	191	100.0	3.3	85.5	4.6	.7	.1	5.5	.3
300 to 399 miles.....	104	100.0	7.2	83.7	3.7	.5	.2	4.7	-
400 to 599 miles.....	241	100.0	22.3	64.0	9.2	.6	-	3.8	.1
600 to 799 miles.....	163	100.0	3.6	81.4	3.5	1.5	-	9.9	.1
800 to 999 miles.....	88	100.0	7.5	75.1	5.4	1.1	.1	10.6	.2
1,000 to 1,199 miles.....	55	100.0	1.3	73.5	4.2	3.7	1.5	15.8	-
1,200 to 1,499 miles.....	38	100.0	2.1	71.7	9.9	3.3	.1	12.6	.3
1,500 to 1,999 miles.....	47	100.0	9.3	73.5	1.5	3.1	.3	12.2	.1
2,000 miles or more.....	170	100.0	59.6	30.5	.1	2.8	.2	6.7	.1

NOTE: Percent distributions by ton-miles are about the same as those for tons because data are grouped in mileage blocks.

¹Distances of shipments to foreign destinations are calculated only to the American port of exit.

TABLE 3. Tons and Ton-Miles of Shipments—Means of Transport and Weight: 1963

Weight	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS		(Thousands of tons)							
Total.....	1754	100.0	15.5	70.3	5.8	1.2	0.2	6.8	0.2
Shipments—									
Under 1,000 pounds.....	234	100.0	2.9	76.7	2.2	3.1	.5	14.3	.3
Under 50 pounds.....	24	100.0	1.4	21.0	1.5	7.8	.2	67.5	.6
50 to 99 pounds.....	24	100.0	3.2	72.0	2.7	4.3	.5	16.9	.4
100 to 199 pounds.....	38	100.0	3.7	80.9	2.1	3.5	.4	8.9	.5
200 to 499 pounds.....	76	100.0	3.0	83.9	2.5	2.3	.8	7.3	.2
500 to 999 pounds.....	72	100.0	2.8	87.3	2.1	1.6	.2	5.9	.1
1,000 to 9,999 pounds.....	192	100.0	1.8	85.7	4.7	1.1	.3	6.0	.4
1,000 to 1,999 pounds.....	65	100.0	2.7	86.8	3.0	1.1	.3	5.4	.7
2,000 to 9,999 pounds.....	127	100.0	1.3	85.3	5.5	1.0	.3	6.3	.3
10,000 pounds and over.....	328	100.0	32.5	56.6	9.0	-	-	1.9	-
TON-MILES		(Millions of ton-miles)							
Total.....	1591	100.0	33.8	52.8	3.3	2.0	.2	7.7	.2
Shipments—									
Under 1,000 pounds.....	160	100.0	6.2	68.6	1.7	5.2	.4	17.7	.2
Under 50 pounds.....	18	100.0	2.5	19.1	.7	11.5	.2	65.5	.5
50 to 99 pounds.....	16	100.0	6.1	65.1	1.4	7.7	.4	19.1	.2
100 to 199 pounds.....	27	100.0	7.3	71.5	1.6	5.8	.2	13.3	.3
200 to 499 pounds.....	52	100.0	6.6	76.3	2.0	3.7	.9	10.3	.2
500 to 999 pounds.....	47	100.0	6.5	79.1	1.9	3.2	.1	9.2	-
1,000 to 9,999 pounds.....	118	100.0	3.8	80.2	3.1	3.2	.5	8.7	.5
1,000 to 1,999 pounds.....	41	100.0	3.2	82.2	1.4	3.2	.5	8.9	.6
2,000 to 9,999 pounds.....	77	100.0	4.1	79.3	3.9	3.1	.5	8.6	.5
10,000 pounds and over.....	313	100.0	59.4	34.4	4.1	-	-	2.1	-

NOTE: Because of rounding, detail may not add to total.

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 4. **Tons of Shipments—Means of Transport,
Distance Shipped, and Weight: 1963**

Distance and weight	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS									
Total.....	1 754	100.0	15.5	70.3	5.8	1.2	0.2	6.8	0.2
Under 400 miles.....	326	100.0	2.6	85.7	6.6	.5	.3	4.0	.3
Under 1,000 pounds.....	102	100.0	.7	83.7	3.0	1.4	.7	10.2	.3
1,000 pounds and over.....	224	100.0	3.5	86.6	8.3	-	.2	1.2	.2
400 miles and over.....	428	100.0	25.2	58.6	5.2	1.8	.1	8.9	.2
Under 1,000 pounds.....	132	100.0	4.6	71.6	1.6	4.3	.3	17.4	.2
1,000 pounds and over.....	296	100.0	34.4	52.9	6.7	.7	.1	5.1	.1

NOTE: Because of rounding, detail may not add to total.

¹Includes only shipments represented by bills of lading and invoices. Summary records which did not show individual weights of shipments are not included.

TABLE 5. Tons and Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons and ton-miles	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
		(Thousands of tons)								
	Total products shipped.....	1,423	100.0	13.3	69.8	8.4	1.2	0.2	7.0	0.1
	Total primary commodities ¹	935	100.0	14.6	68.3	8.0	1.0	.2	7.7	.2
	Total other commodities ² ..	488	100.0	10.9	72.4	9.1	1.6	.2	5.7	.1
	Selected Primary Commodities ³									
381	Engineering, laboratory and scientific instruments.....	31	100.0	11.0	66.0	8.3	3.2	.3	10.6	.6
382	Measuring, controlling and indicating instruments.....	265	100.0	12.5	60.4	15.3	.7	.2	10.8	.1
3821	Mechanical measuring and controlling instruments (exc. automatic temperature controls)	231	100.0	13.3	60.3	14.3	.6	.3	11.2	-
3822	Automatic temperature controls.	30	100.0	1.0	63.1	24.6	1.5	-	9.4	.4
383	Optical instruments and lenses...	9	100.0	.3	34.9	23.8	15.0	.1	25.0	.9
384	Surgical, medical and dental instruments and supplies.....	159	100.0	1.3	85.0	5.1	.4	.5	7.6	.1
3841	Surgical and medical instruments and apparatus.....	42	100.0	.1	75.3	13.7	.8	1.2	8.9	-
3842	Orthopedic, prosthetic and surgical appliances and supplies.	104	100.0	1.8	90.8	1.6	.2	.1	5.4	.1
3843	Dental equipment, instruments and supplies (exc. furniture).	13	100.0	1.7	71.7	5.3	.6	1.7	19.0	-
385	Ophthalmic and opticians goods...	15	100.0	.5	62.2	.4	5.4	-	31.4	.1
386	Photographic equipment and supplies.....	427	100.0	22.4	68.1	5.1	.8	-	3.4	.2
387	Watches, clocks, and parts, and clockwork operated devices and parts.....	28	100.0	6.7	68.8	.4	1.5	.6	22.0	-
	TON-MILES	(Millions of ton-miles)								
	Total.....	1,015	100.0	28.2	57.8	3.4	2.1	.2	8.2	.1
	Total primary commodities ¹	717	100.0	29.5	56.3	3.8	1.5	.2	8.6	.1
	Total other commodities ² ..	298	100.0	25.1	61.4	2.3	3.6	.2	7.2	.2
	Selected Primary Commodities ³									
381	Engineering, laboratory and scientific instruments.....	20	100.0	26.9	51.4	5.1	5.0	.3	11.0	.3
382	Measuring, controlling and indicating instruments.....	223	100.0	30.8	47.3	9.4	1.1	.1	11.2	.1
3821	Mechanical measuring and controlling instruments (exc. automatic temperature controls)	204	100.0	32.9	46.3	8.8	.9	.1	10.9	.1
3822	Automatic temperature controls.	17	100.0	1.3	59.5	18.7	3.5	.2	16.7	.1
383	Optical instruments and lenses...	5	100.0	.9	34.7	7.9	28.7	.2	26.6	1.0
384	Surgical, medical and dental instruments and supplies.....	102	100.0	2.4	81.7	4.1	.6	.7	10.4	.1
3841	Surgical and medical instruments and apparatus.....	27	100.0	.2	75.0	9.7	1.4	2.1	11.6	-
3842	Orthopedic, prosthetic and surgical appliances and supplies.	64	100.0	3.3	87.0	1.9	.3	.1	7.3	.1
3843	Dental equipment, instruments and supplies (exc. furniture).	10	100.0	2.7	68.0	3.4	.7	1.0	24.2	-

See footnotes at end of table.

TABLE 5. Tons and Ton-Miles of Shipments—Means of Transport and Commodity: 1963—Continued

TCC code	Commodity	Tons and ton-miles	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
		(Millions of ton-miles)								
385	Ophthalmic and opticians goods...	13	100.0	1.2	59.1	0.2	8.1	-	31.4	-
386	Photographic equipment and supplies.....	336	100.0	39.3	55.2	.2	1.2	0.1	3.9	0.1
387	Watches, clocks, and parts, and clockwork operated devices and parts.....	17	100.0	15.4	49.2	.2	2.5	1.5	31.2	-

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 381, 382, 383, 384, 385, 386, and 387.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 6. Tons of Shipments—Distance Shipped and
Commodity: 1963

TCC code	Commodity	Tons (thousands)	Percent distribution by distance of shipment								
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
	Total products shipped.	1,423	100.0	12.9	10.0	13.4	7.3	8.3	26.3	6.6	15.2
	Total primary com- modities ¹	935	100.0	9.3	8.6	13.4	6.6	10.4	27.6	8.0	16.1
	Total other com- modities ²	488	100.0	19.8	12.8	13.5	8.6	4.3	23.7	3.8	13.5
	Selected Primary Commodities ³										
381	Engineering, laboratory and scientific instruments....	31	100.0	14.2	6.1	10.2	10.9	13.5	29.0	3.0	13.1
382	Measuring, controlling and indicating instruments....	265	100.0	5.0	7.4	10.3	3.1	25.3	20.1	10.3	18.5
3821	Mechanical measuring and controlling instruments (exc. automatic temper- ature controls).....	231	100.0	5.0	6.5	9.4	2.9	24.6	20.6	11.1	19.9
3822	Automatic temperature controls.....	30	100.0	5.3	9.0	18.3	4.7	34.1	17.4	3.4	7.8
383	Optical instruments and lenses.....	9	100.0	11.9	15.0	11.3	15.3	5.8	24.7	7.0	9.0
384	Surgical, medical and den- tal instruments and supplies.....	159	100.0	12.7	14.5	14.7	6.7	8.7	23.4	8.1	11.2
3841	Surgical and medical instruments and apparatus	42	100.0	4.5	11.0	14.3	6.9	12.1	29.6	17.1	4.5
3842	Orthopedic, prosthetic and surgical appliances and supplies.....	104	100.0	16.3	16.6	15.7	6.9	7.4	19.7	4.5	12.9
3843	Dental equipment, instru- ments and supplies (exc. furniture).....	13	100.0	9.5	9.1	8.8	4.7	7.6	33.7	6.5	20.1
385	Ophthalmic and opticians goods.....	15	100.0	9.0	5.8	9.1	7.1	6.8	32.8	10.7	18.7
386	Photographic equipment and supplies.....	427	100.0	10.0	7.0	15.2	8.1	2.1	33.6	6.9	17.1
387	Watches, clocks, and parts, and clockwork operated devices and parts.....	28	100.0	12.8	11.9	12.1	8.8	5.5	33.3	5.8	9.8

¹"Primary commodities" are those classified in Transportation Commodity Classification (TCC) codes 381, 382, 383, 384, 385, 386, and 387.

²"Other" are all other commodities, including waste, scrap, etc.

³The data for some commodities could not be shown separately because of possible disclosure of individual shippers and for technical reasons. Consequently, the totals of items at one level may not equal the total shown for the next higher level.

TABLE 7. Tons of Shipments—Means of Transport, Geographic Division of Origin, and Distance Shipped: 1963

Geographic division and distance	Tons (thousands)	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
United States, total.....	1,423	100.0	13.3	69.8	8.4	1.2	0.2	7.0	0.1
Under 200 miles.....	326	100.0	.7	71.9	20.6	.3	.4	5.9	.2
200 to 399 miles.....	295	100.0	4.7	84.9	4.3	.6	.1	5.2	.2
400 to 599 miles.....	241	100.0	22.3	64.0	9.2	.6	-	3.8	.1
600 to 999 miles.....	251	100.0	5.0	79.2	4.1	1.4	.1	10.1	.1
1,000 miles and over.....	310	100.0	34.6	49.7	2.2	3.1	.4	9.9	.1
New England and Middle Atlantic.....	821	100.0	21.1	65.1	4.8	1.2	.3	7.4	.1
Under 200 miles.....	177	100.0	.2	85.1	5.1	.3	.7	8.4	.2
200 to 399 miles.....	188	100.0	7.0	83.0	3.4	.6	.1	5.7	.2
400 to 599 miles.....	117	100.0	45.4	35.4	14.5	.7	-	4.0	.7
600 to 999 miles.....	121	100.0	3.6	85.5	2.4	1.1	.1	7.2	.1
1,000 miles and over.....	218	100.0	46.9	37.7	1.8	3.0	.4	10.1	.1
East North Central and West North Central.....	390	100.0	4.1	73.5	13.5	.8	-	8.0	.1
Under 200 miles.....	116	100.0	1.7	56.7	38.6	.1	-	2.8	.1
200 to 399 miles.....	80	100.0	.7	90.1	3.5	.5	.1	5.0	.1
400 to 599 miles.....	58	100.0	1.6	88.4	2.7	1.1	-	5.9	.3
600 to 999 miles.....	85	100.0	9.4	69.0	2.2	1.2	-	18.0	.2
1,000 miles and over.....	51	100.0	8.7	75.1	3.4	2.1	.1	10.5	.1
South Atlantic, East South Central and West South Central.....	158	100.0	.2	84.1	11.2	1.2	.2	3.0	.1
Under 400 miles.....	39	100.0	-	78.0	18.6	.8	.3	2.1	.2
400 to 999 miles.....	98	100.0	.1	87.4	9.4	1.0	-	2.1	-
1,000 miles and over.....	21	100.0	.5	81.4	5.8	2.6	1.0	8.6	.1
Mountain and Pacific ¹	54	100.0	.2	71.9	18.6	3.2	.2	5.2	.7
Under 200 miles.....	17	100.0	-	35.7	58.2	.7	.4	4.3	.7
200 to 999 miles.....	17	100.0	-	94.9	.1	1.0	.1	3.6	.3
1,000 miles and over.....	20	100.0	.5	83.2	.6	7.4	.1	7.3	.9

¹No data were obtained on shipments originating in Alaska and Hawaii.

CENSUS GEOGRAPHIC DIVISIONS

New England—Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut
Middle Atlantic—New York, New Jersey, Pennsylvania
East North Central—Ohio, Indiana, Illinois, Michigan, Wisconsin
West North Central—Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, Kansas
South Atlantic—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida
East South Central—Kentucky, Tennessee, Alabama, Mississippi
West South Central—Arkansas, Louisiana, Oklahoma, Texas
Mountain—Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada
Pacific—Washington, Oregon, California, Alaska, Hawaii

TABLE 8. Tons and Ton-Miles of Shipments—Means of Transport and Geographic Division of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
United States, total.....	1,423	100.0	13.3	69.8	8.4	1.2	0.2	7.0	0.1
Shipments originating from—									
New England.....	107	100.0	4.2	75.2	3.6	2.3	1.0	13.7	-
Middle Atlantic.....	714	100.0	23.6	63.5	4.9	1.1	.2	6.5	.2
East North Central.....	337	100.0	4.7	70.8	15.2	.8	-	8.4	.1
West North Central.....	53	100.0	.3	90.4	2.8	.8	-	5.6	.1
South Atlantic.....	158	100.0	.2	84.1	11.2	1.2	.2	3.0	.1
East South Central.....									
West South Central.....									
Mountain.....	54	100.0	.2	71.9	18.6	3.2	.2	5.2	.7
Pacific ¹									
TON-MILES	(Millions of ton-miles)								
United States, total.....	1,015	100.0	28.2	57.8	3.4	2.1	.2	8.2	.1
Shipments originating from—									
New England.....	78	100.0	11.4	64.0	1.4	4.0	.5	18.7	-
Middle Atlantic.....	579	100.0	45.4	43.1	2.7	1.9	.2	6.6	.1
East North Central.....	165	100.0	8.7	73.5	3.5	1.5	.1	12.5	.2
West North Central.....	41	100.0	.3	88.1	4.1	.9	-	6.6	-
South Atlantic.....	104	100.0	.3	84.7	9.1	1.6	.3	4.0	-
East South Central.....									
West South Central.....									
Mountain.....	48	100.0	.4	85.0	.9	6.5	.1	6.2	.9
Pacific ¹									

¹No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 9. Tons and Ton-Miles of Shipments—Geographic Division of Destination and of Origin: 1963

Geographic division of origin	Tons and ton-miles	Percent distribution by geographic division of destination									
		All divisions	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific ¹
TONS OF SHIPMENTS	(Thousands of tons)										
United States, total.....	1,423	100.0	4.9	23.0	24.3	5.3	15.3	3.7	6.3	1.7	15.5
Shipments originating from—											
New England.....	107	100.0	10.3	36.0	17.5	2.2	12.9	3.0	5.1	1.1	11.9
Middle Atlantic.....	714	100.0	5.4	28.2	19.6	3.1	16.5	2.4	5.1	.7	19.0
East North Central.....	337	100.0	4.1	16.6	44.1	10.2	6.8	4.1	4.3	2.3	7.5
West North Central.....	53	100.0	2.6	21.9	31.8	8.9	7.1	4.4	8.1	3.4	11.8
South Atlantic.....	158	100.0	2.6	9.3	8.4	5.8	36.2	9.1	17.5	1.8	9.3
East South Central.....		100.0	2.6	9.3	8.4	5.8	36.2	9.1	17.5	1.8	9.3
West South Central.....		100.0	2.6	9.3	8.4	5.8	36.2	9.1	17.5	1.8	9.3
Mountain.....	54	100.0	1.2	10.1	14.7	3.7	3.7	2.2	3.5	11.3	49.6
Pacific ²		100.0	1.2	10.1	14.7	3.7	3.7	2.2	3.5	11.3	49.6
TON-MILES	(Millions of ton-miles)										
United States, total.....	1,015	100.0	2.7	9.7	13.2	4.9	12.1	2.8	8.3	2.8	43.5
Shipments originating from—											
New England.....	78	100.0	1.2	8.7	16.5	3.4	11.4	3.9	10.3	3.1	41.5
Middle Atlantic.....	579	100.0	1.6	5.2	12.3	3.7	11.9	1.8	7.7	1.5	54.3
East North Central.....	165	100.0	6.5	18.7	11.6	9.0	8.6	3.5	7.7	5.8	28.6
West North Central.....	41	100.0	3.9	27.2	19.4	3.7	8.9	3.3	7.0	3.9	22.7
South Atlantic.....	104	100.0	3.7	8.5	8.4	7.0	22.0	5.5	12.9	2.9	29.1
East South Central.....		100.0	3.7	8.5	8.4	7.0	22.0	5.5	12.9	2.9	29.1
West South Central.....		100.0	3.7	8.5	8.4	7.0	22.0	5.5	12.9	2.9	29.1
Mountain.....	48	100.0	3.5	23.0	28.1	4.2	8.4	4.2	4.7	7.0	16.9
Pacific ²		100.0	3.5	23.0	28.1	4.2	8.4	4.2	4.7	7.0	16.9

¹Shipments to Alaska and Hawaii from the 48 conterminous States and the District of Columbia are included.²No data were obtained on shipments originating in Alaska and Hawaii.

TABLE 10. Tons and Ton-Miles of Shipments—Means of Transport and Employment Size of Establishment: 1963

Employment size of establishment	Tons and ton-miles	Percent distribution by means of transport							
		All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
TONS OF SHIPMENTS	(Thousands of tons)								
Total.....	1,423	100.0	13.3	69.8	8.4	1.2	0.2	7.0	0.1
Number of employees—									
Under 20 employees.....	35	100.0	.4	43.1	2.3	1.2	.5	52.1	.4
20 to 99 employees.....	145	100.0	2.3	69.5	10.6	1.2	.7	15.2	.5
100 to 499 employees.....	533	100.0	7.1	80.9	6.4	1.2	.2	4.1	.1
500 employees and over.....	710	100.0	20.8	62.8	9.8	1.2	.1	5.2	.1
TON-MILES	(Millions of ton-miles)								
Total.....	1,015	100.0	28.2	57.8	3.4	2.1	.2	8.2	.1
Number of employees—									
Under 20 employees.....	22	100.0	.8	38.7	.3	1.6	.5	57.9	.2
20 to 99 employees.....	113	100.0	3.9	73.3	3.4	1.9	.3	16.9	.3
100 to 499 employees.....	380	100.0	17.0	71.8	3.5	2.2	.2	5.3	-
500 employees and over.....	500	100.0	43.4	44.4	3.4	2.2	.2	6.3	.1

TABLE 11. Tons of Shipments—Distance Shipped and Employment Size of Establishment: 1963

Employment size of establishment	Tons (thousands)	Percent distribution by distance of shipment								
		All distances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 399 miles	400 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
Total tons.....	1,423	100.0	12.9	10.0	13.4	7.3	8.3	26.3	6.6	15.2
Number of employees—										
Under 20 employees.....	35	100.0	26.4	10.3	11.9	6.0	3.4	17.0	11.9	13.1
20 to 99 employees.....	145	100.0	17.3	5.6	9.6	4.9	6.1	31.4	8.3	16.8
100 to 499 employees.....	533	100.0	8.9	10.3	10.6	8.6	13.4	28.2	6.9	13.1
500 employees and over.....	710	100.0	14.3	10.7	16.4	6.9	5.2	24.2	5.7	16.6

TABLE 12. **Tons of Shipments—Distance Shipped and Production Area of Origin: 1963**

Production Area of origin	Tons (thousands)	Percent distribution by distance of shipment							
		All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over
TONS OF SHIPMENTS									
Total.....	1,423	100.0	12.9	10.0	13.4	15.6	26.3	6.6	15.2
Production Areas ¹ —									
1.....	42	100.0	8.4	22.5	14.1	9.2	20.9	7.1	17.8
2.....	42	100.0	24.8	11.2	8.4	8.5	22.3	8.9	15.9
3.....	41	100.0	29.9	6.1	4.8	7.2	19.7	14.1	18.2
4.....	144	100.0	37.4	8.9	12.7	12.1	12.3	7.3	9.3
5.....	15	100.0	24.7	11.1	21.9	9.6	20.0	5.4	7.3
15.....	145	100.0	19.1	13.1	14.5	19.8	26.5	1.6	5.4
25.....	36	100.0	38.3	3.7	1.2	6.7	18.3	5.0	26.8
Balance of Production Areas.....	325	100.0	9.9	8.8	27.4	15.8	21.9	5.9	10.3
SMSA's outside Production Areas.	237	100.0	3.4	13.6	5.5	9.6	43.7	8.7	15.5
Balance of United States.....	396	100.0	4.6	7.7	8.6	22.2	27.1	6.5	23.3

¹For description of Production Areas, see map in appendix C.

TABLE 13. **Tons and Ton-Miles of Shipments—Area of Destination and of Origin: 1963**

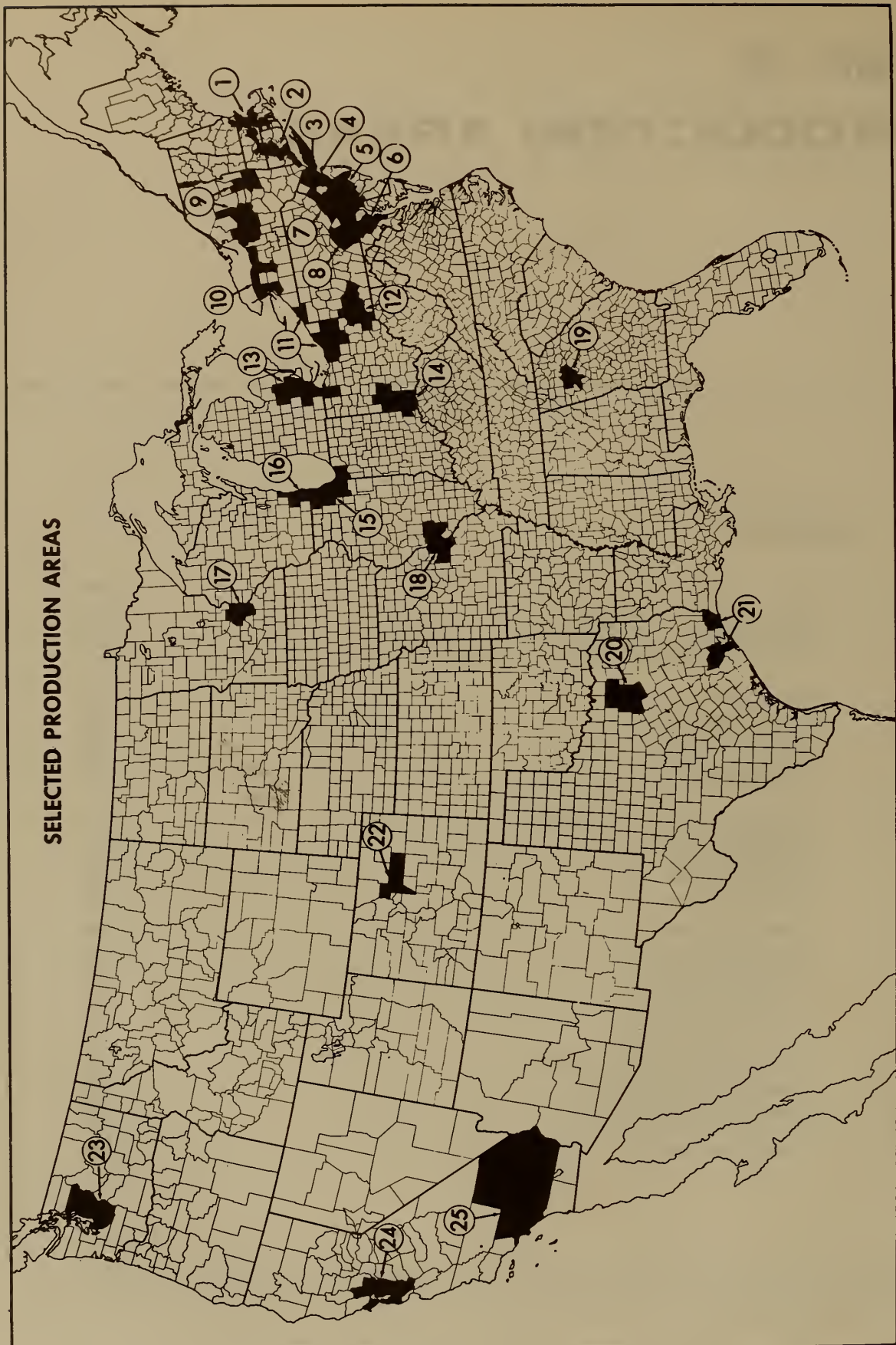
Area of origin	Tons and ton-miles	Percent distribution by area of destination			
		All areas of destination	Production Areas	SMSA's outside Production Areas	Areas outside SMSA's
TONS OF SHIPMENTS	(Thousands of tons)				
United States, total.....	1,423	100.0	62.4	20.8	16.8
In Production Areas.....	790	100.0	66.9	19.7	13.4
In SMSA's outside Production Areas.....	237	100.0	73.7	16.7	9.6
Outside of SMSA's.....	396	100.0	46.4	25.5	28.1
TON-MILES	(Millions of ton-miles)				
United States, total.....	1,015	100.0	58.2	21.1	20.7
In Production Areas.....	455	100.0	61.5	26.1	12.4
In SMSA's outside Production Areas.....	196	100.0	76.8	15.7	7.5
Outside of SMSA's.....	364	100.0	44.0	17.7	38.3

Part 4

PRODUCTION AREAS

Contents

	Page
Map of Production Areas	312
Description of Production Areas	313
Column Headings of Tables	314
Production Area 1	315
Production Area 2	335
Production Area 3	345
Production Area 4	365
Production Area 5	385
Production Areas 6, 7, and 8	401
Production Area 9	411
Production Area 10	415
Production Area 11	423
Production Area 12	441
Production Area 13	449
Production Area 14	459
Production Area 15	469
Production Area 16	497
Production Area 17	503
Production Area 18	507
Production Areas 19 and 20	513
Production Area 21	515
Production Areas 22 and 23	525
Production Area 24	527
Production Area 25	537



DESCRIPTION OF PRODUCTION AREAS

In order to obtain useful "point-to-point" tabulations, the following production areas have been developed for this survey. These areas were selected to represent relatively compact geographic concentrations of manufacturing activity. Each consists of one or more standard metropolitan statistical areas (SMSA) which makes possible comparisons between traffic flow data and economic and demographic statistics available from other sources. The following list shows the production area number and its description (the SMSA's included in each area).

1. Boston, Mass.; Worcester, Mass.; Providence-Pawtucket-Warwick, R.I.-Mass.; Brockton, Mass.; Lawrence-Haverhill, Mass.-N.H.; and Lowell, Mass.
2. Hartford, Conn.; New Britain, Conn.; Meriden, Conn.; Waterbury, Conn.; New Haven, Conn.; Bridgeport, Conn.; Norwalk, Conn.; Stamford, Conn.; Springfield-Chicopee-Holyoke, Mass.-Conn.
3. New York, N.Y.
4. Newark, N.J.; Jersey City, N.J.; Paterson-Clifton-Passaic, N.J.; and Middlesex and Somerset counties, N.J.
5. Philadelphia, Pa.-N.J.; Wilmington, Del.-N.J.-Md.; Trenton, N.J.
6. Baltimore, Md.
7. Allentown-Bethlehem-Easton, Pa.-N.J.; and Reading, Pa.
8. Harrisburg, Pa.; Lancaster, Pa.; and York, Pa.
9. Syracuse, N.Y.; Utica-Rome, N.Y.; and Albany-Schenectady-Troy, N.Y.
10. Buffalo, N.Y.; and Rochester, N.Y.
11. Cleveland, Ohio; Akron, Ohio; Canton, Ohio; Lorain-Elyria, Ohio; Youngstown-Warren, Ohio; and Erie, Pa.
12. Pittsburgh, Pa.; Steubenville-Weirton, Ohio-W. Va.; and Wheeling, W. Va.-Ohio.
13. Detroit, Mich.; Flint, Mich.; Toledo, Ohio-Mich.; and Ann Arbor, Mich.
14. Cincinnati, Ohio-Ky.-Ind.; Dayton, Ohio; Hamilton-Middletown, Ohio; Springfield, Ohio.
15. Chicago, Ill.; and Gary-Hammond-East Chicago, Ind.
16. Milwaukee, Wis.; Kenosha, Wis.; and Racine, Wis.
17. Minneapolis-St. Paul, Minn.
18. St. Louis, Mo.-Ill.
19. Atlanta, Ga.
20. Dallas, Tex.; and Fort Worth, Tex.
21. Houston, Tex.; Beaumont-Port Arthur, Tex.; and Galveston-Texas City, Tex.
22. Denver, Colo.
23. Seattle-Everett, Wash.; and Tacoma, Wash.
24. San Francisco-Oakland, Calif.; Vallejo-Napa, Calif.; and San Jose, Calif.
25. Los Angeles-Long Beach, Calif.; Anaheim-Santa Ana-Garden Grove, Calif.; and San Bernardino-Riverside-Ontario, Calif.
30. All SMSA's not included in the 25 production areas above.
50. All points or places located outside of SMSA's.

COLUMN HEADINGS OF TABLES

MEANS OF TRANSPORT AND COMMODITY: 1963

TABLE 1 TONS OF SHIPMENTS

TABLE 2 TON-MILES OF SHIPMENTS

TCC code	Commodity	Tons or ton-miles of shipments	Percent distribution by means of transport								Sampling variability code
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Un- known	

TABLE 3 TONS OF SHIPMENTS—DISTANCE AND COMMODITY: 1963

TCC code	Commodity	Tons of ship- ments	Percent distribution by distance of shipment								Sampling variability code
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over	

PRODUCTION AREA DESTINATION AND COMMODITY: 1963

TABLE 4 TONS OF SHIPMENTS

TABLE 5 TON-MILES OF SHIPMENTS

TCC code	Commodity	Tons or ton-miles of shipments	Percent distribution by production area of destination						
			Total	1	through	25	30	50	

Production Area 1

Production Area 1 consists of six standard metropolitan statistical areas: Boston, Mass.; Worcester, Mass.; Providence-Pawtucket-Warwick, R.I.-Mass.; Brockton, Mass.; Lawrence-Haverhill, Mass.-N.H.; and Lowell, Mass.

Data are based on 324 plants from which 38,165 shipping documents were sampled. The sampling variability on the estimated 8.9 million tons shipped from Production Area 1 is ± 22.8 percent.

Major commodity groups shipped from Production Area 1 and their area of destinations are summarized in table A below.

Table A.—DISTRIBUTION OF TONS OF COMMODITIES SHIPPED FROM PRODUCTION AREA 1, BY AREA OF DESTINATION

TCC code	Commodity class	Total tons (thousands)	Percent distribution by destination area			
			Production Area 1 ¹	Other production areas	Other SMSA's	Balance of country
	Total.....	28,879	21.2	34.5	14.9	29.4
20	Food and kindred products.....	2,265	27.9	18.1	12.5	41.5
22	Basic textiles.....	520	19.5	21.9	18.3	40.3
23	Apparel, including knit apparel, and other finished textile products.....	17	14.5	51.7	15.7	18.1
26	Pulp, paper, and allied products.....	443	19.3	51.8	10.4	18.5
28	Chemicals and allied products.....	892	30.1	33.1	14.1	22.7
30	Rubber and miscellaneous plastics products....	260	23.2	46.6	17.6	12.6
31	Leather and leather products.....	219	8.2	54.4	17.9	19.5
32	Stone, clay, and glass products.....	254	22.8	62.7	4.2	10.3
33	Primary metal products.....	1,122	10.1	62.6	3.6	23.7
34	Fabricated metal products.....	325	12.8	40.9	18.3	28.0
35	Machinery, except electrical.....	316	13.0	37.7	18.4	30.9
36	Electrical machinery and equipment.....	245	17.1	49.7	18.1	15.1
38	Instruments, photographic goods, optical goods, watches, and clocks.....	28	5.6	63.5	16.5	14.4
39	Miscellaneous products of manufacturing.....	38	17.7	53.7	14.4	14.2

¹Includes only those shipments that originated in one city in this area and terminated in another city in this area.

²Includes commodity classes not shown separately.

TABLE 1. Tons of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by means of transport								Sampling variability code ¹
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Un- known	
	Total.....	8,879	100.0	11.7	50.9	27.8	0.1	7.8	1.4	0.3	
20	Food and kindred products.....	2,265	100.0	3.0	37.2	59.2	-	-	-	.6	d
207	Confectionery and related products...	206	100.0	33.4	62.5	3.8	-	.3	-	-	a
22	Basic textiles.....	520	100.0	.6	69.8	28.6	.2	.1	.7	-	d
229	Miscellaneous basic textiles.....	336	100.0	.7	60.3	38.4	-	-	.6	-	d
23	Apparel, including knit apparel, and other finished textile products.....	17	100.0	.6	37.2	5.2	.4	-	56.6	-	e
26	Pulp, paper, and allied products.....	443	100.0	6.6	86.7	5.9	-	-	.8	-	d
28	Chemicals and allied products.....	892	100.0	8.8	66.7	22.5	.1	.7	1.0	.2	d
281	Industrial chemicals.....	465	100.0	9.2	70.0	19.8	-	.2	.4	.4	d
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	267	100.0	7.1	62.8	27.5	.4	1.7	.5	-	d
28211	Plastic materials and plasticizers, synthetic resins, and nonvulcan- izable elastomers.....	221	100.0	8.6	57.7	33.0	.5	.1	.1	-	e
289	Miscellaneous chemical products.....	57	100.0	2.6	74.3	22.2	.1	-	.8	-	e
30	Rubber and miscellaneous plastics products.....	260	100.0	10.9	72.3	10.5	.2	.1	6.0	-	b
302	Rubber footwear (including rubber and plastic combined).....	66	100.0	19.7	71.6	1.0	-	-	7.5	.2	b
306	Miscellaneous fabricated rubber products.....	72	100.0	14.2	74.1	5.7	.2	-	5.8	-	b
30619	Fabricated rubber products, n.e.c....	42	100.0	11.3	70.4	8.4	.3	-	9.6	-	b
307	Miscellaneous plastic products.....	117	100.0	4.4	71.5	18.3	.3	.1	5.4	-	d
31	Leather and leather products.....	219	100.0	21.5	73.4	3.1	.1	.2	1.7	-	c
314	Footwear (except rubber).....	57	100.0	3.1	89.8	.2	.2	.2	6.5	-	d
32	Stone, clay, and glass products.....	254	100.0	9.6	52.8	36.0	-	.1	1.3	.2	d
33	Primary metal products.....	1,122	100.0	46.4	47.1	5.3	.1	.5	.4	.2	d
331	Steel works and rolling mill products.....	700	100.0	48.9	48.3	2.2	-	.2	.2	.2	e
3315	Steel wire, nails, and spikes.....	253	100.0	25.1	71.1	2.4	-	.5	.4	.5	e
335	Nonferrous metal basic shapes.....	325	100.0	49.6	36.1	11.8	.1	1.2	1.0	.2	b
3357	Nonferrous wire (including insulated wire).....	305	100.0	52.4	32.7	12.4	-	1.3	.9	.3	b
33574	Wire and cable, insulated, enameled or covered.....	249	100.0	60.9	25.5	11.2	-	1.5	.6	.3	a
34	Fabricated metal products.....	325	100.0	9.9	71.8	16.5	.4	.4	1.0	-	c
342	Cutlery, hand tools, and general hardware.....	35	100.0	1.2	90.9	5.1	1.2	.2	1.4	-	d
345	Bolts, nuts, screws, rivets, washers, and other industrial fasteners.....	23	100.0	-	90.2	6.4	.1	-	3.3	-	d
349	Miscellaneous fabricated metal products.....	86	100.0	1.6	77.3	17.7	.5	1.5	1.4	-	d
3494	Valves and pipe fittings (except plumbers' brass goods and fittings).....	50	100.0	1.7	94.1	.4	.7	2.6	.5	-	e
34941	Metal valves for piping, plumbing, and heating systems.....	21	100.0	4.1	86.5	.9	1.3	6.1	1.1	-	e
35	Machinery, except electrical.....	316	100.0	14.7	71.5	6.0	.4	1.1	6.2	.1	b
354	Metalworking machinery and equipment.....	20	100.0	49.7	26.3	6.6	.5	-	16.9	-	d
355	Special industry machinery (except metalworking machinery).....	119	100.0	17.8	68.0	10.9	.4	-	2.9	-	b

See footnote at end of table.

TABLE 1. Tons of Shipments—Means of Transport and Commodity: 1963—Continued

TCC code	Commodity	Tons (thous.)	Percent distribution by means of transport								Sampling variability code ¹
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown	
3552	Textile machinery.....	91	100.0	21.4	64.3	13.9	0.1	-	0.3	-	b
356	General industrial machinery and equipment.....	31	100.0	6.6	63.5	6.8	.3	10.8	12.0	-	d
359	Miscellaneous machinery and parts (except electrical).....	74	100.0	16.8	76.7	2.9	.2	-	3.2	0.2	e
36	Electrical machinery and equipment...	245	100.0	6.9	50.3	29.3	1.3	.5	11.6	.1	d
361	Electrical transmission and distribution equipment.....	8	100.0	-	58.1	2.0	2.9	4.5	32.5	-	d
3611	Electrical measuring instruments and test equipment.....	2	100.0	-	71.4	2.0	4.9	15.0	6.7	-	b
36113	Indicating, recording, and measuring instruments (electrical qualities or characteristics).....	2	100.0	-	71.6	1.6	4.9	15.3	6.6	-	b
364	Electric lighting and wiring equipment.....	55	100.0	25.1	56.0	13.6	.2	-	4.9	.2	c
3643	Current carrying wiring devices (including lightning rods).....	27	100.0	15.9	62.6	18.8	.5	-	2.2	-	d
367	Electronic components or accessories.	4	100.0	1.2	27.6	10.8	18.3	.5	41.3	.3	c
3671	Electronic tubes (except X-ray tubes).....	1	100.0	2.3	36.6	1.0	6.5	-	53.6	-	c
3679	Miscellaneous electronic components and accessories.....	1	100.0	.4	22.7	19.2	27.5	1.5	28.7	-	b
38	Instruments, photographic goods, optical goods, watches, and clocks..	28	100.0	2.7	71.1	1.0	1.7	1.5	22.0	-	c
382	Measuring, controlling, and indicating instruments.....	10	100.0	.2	71.6	.3	3.3	2.5	22.1	-	e
384	Surgical, medical, and dental instruments and supplies.....	5	100.0	-	88.2	3.8	.1	-	7.8	.1	e
39	Miscellaneous products of manufacturing.....	38	100.0	.1	81.4	2.1	1.6	-	8.9	5.9	d
391	Jewelry, silverware, and plated ware.	2	100.0	-	59.6	.8	6.8	-	32.3	.5	e

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 2. Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Ton-miles (millions)	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Un-known
	Total.....	2,695	100.0	28.7	50.0	11.0	0.5	4.9	4.7	0.2
20	Food and kindred products.....	414	100.0	27.4	39.0	32.3	-	.4	.1	.8
207	Confectionery and related products.....	201	100.0	56.5	41.7	.9	-	.9	-	-
22	Basic textiles.....	211	100.0	3.1	70.6	24.5	.4	.4	1.0	-
229	Miscellaneous basic textiles.....	133	100.0	3.9	66.7	28.1	-	.2	1.1	-
23	Apparel, including knit apparel, and other finished textile products.....	9	100.0	2.0	42.5	5.6	1.0	-	48.9	-
26	Pulp, paper, and allied products.....	96	100.0	18.8	77.3	1.9	-	-	2.0	-
28	Chemicals and allied products.....	223	100.0	26.4	55.6	6.7	.4	6.2	4.6	.1
281	Industrial chemicals.....	80	100.0	30.1	60.1	4.8	-	2.7	2.0	.3
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	89	100.0	24.7	52.3	8.6	.9	12.7	.8	-
28211	Plastic materials and plasticizers, synthetic resins, and nonvulcanizable elastomers.....	70	100.0	31.3	56.2	10.8	1.1	.4	.2	-
289	Miscellaneous chemical products.....	16	100.0	19.5	68.4	8.6	.3	-	3.2	-
30	Rubber and miscellaneous plastics products.....	133	100.0	24.2	57.2	2.8	.2	.4	15.1	.1
302	Rubber footwear (including rubber and plastic combined).....	30	100.0	18.0	66.0	.5	-	-	15.1	.4
306	Miscellaneous fabricated rubber products...	57	100.0	36.1	45.8	2.2	.2	-	15.7	-
30619	Fabricated rubber products, n.e.c.....	33	100.0	28.2	41.3	3.3	.3	-	26.9	-
307	Miscellaneous plastic products.....	46	100.0	13.9	65.3	5.0	.2	1.0	14.6	-
31	Leather and leather products.....	114	100.0	34.7	60.5	.3	.1	.4	4.0	-
314	Footwear (except rubber).....	43	100.0	10.1	79.0	-	.3	.1	10.5	-
32	Stone, clay, and glass products.....	105	100.0	25.7	57.0	10.2	.1	.2	6.7	.1
33	Primary metal products.....	548	100.0	61.2	33.9	2.0	.1	1.5	1.1	.2
331	Steel works and rolling mill products.....	203	100.0	46.2	49.7	1.6	.1	1.5	.4	.5
3315	Steel wire, nails, and spikes.....	118	100.0	35.1	60.2	.9	-	2.6	.4	.8
335	Nonferrous metal basic shapes.....	324	100.0	72.1	22.6	2.2	.1	1.6	1.3	.1
3357	Nonferrous wire (including insulated wire).....	310	100.0	75.0	19.7	2.3	-	1.7	1.2	.1
33574	Wire and cable, insulated, enameled or covered.....	264	100.0	80.6	15.6	.9	-	1.9	1.0	-
34	Fabricated metal products.....	169	100.0	21.2	74.8	1.6	.8	.1	1.5	-
342	Cutlery, hand tools, and general hardware..	21	100.0	4.7	91.2	.4	1.6	.1	2.0	-
345	Bolts, nuts, screws, rivets, washers, and other industrial fasteners.....	11	100.0	-	93.4	4.5	.2	-	1.9	-
349	Miscellaneous fabricated metal products...	38	100.0	6.1	86.8	2.1	1.6	.6	2.8	-
3494	Valves and pipe fittings (except plumbers' brass goods and fittings).....	27	100.0	6.9	89.6	-	1.9	.8	.8	-
34941	Metal valves for piping, plumbing, and heating systems.....	14	100.0	12.8	81.8	-	2.6	1.6	1.2	-
35	Machinery, except electrical.....	182	100.0	21.5	62.2	4.5	.7	.3	10.7	.1
354	Metalworking machinery and equipment.....	10	100.0	48.1	29.4	.2	1.7	-	20.6	-
355	Special industry machinery (except metalworking machinery).....	74	100.0	32.9	50.6	10.1	1.0	-	5.4	-
3552	Textile machinery.....	57	100.0	35.2	51.4	13.1	.1	-	.2	-
356	General industrial machinery and equipment.	17	100.0	11.5	51.9	3.3	.6	3.2	29.5	-
359	Miscellaneous machinery and parts (except electrical).....	30	100.0	25.0	67.7	.3	.6	-	6.0	.4

TABLE 2. **Ton-Miles of Shipments—Means of Transport and Commodity: 1963**—Continued

TCC code	Commodity	Ton-miles (millions)	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Un-known
36	Electrical machinery and equipment.....	112	100.0	13.1	44.5	7.0	3.7	0.4	31.2	0.1
361	Electrical transmission and distribution equipment.....	5	100.0	.1	76.2	.5	6.0	1.5	15.7	-
3611	Electrical measuring instruments and test equipment.....	1	100.0	-	72.0	.8	10.6	5.2	11.4	-
36113	Indicating, recording, and measuring instruments (electrical qualities or characteristics).....	1	100.0	-	72.2	.8	10.5	5.3	11.2	-
364	Electric lighting and wiring equipment....	26	100.0	40.7	48.6	3.4	.5	-	6.6	.2
3643	Current carrying wiring devices (including lightning rods).....	12	100.0	12.6	77.3	4.3	1.1	-	4.7	-
367	Electronic components or accessories.....	2	100.0	3.4	25.6	1.6	33.9	.2	35.3	-
3671	Electronic tubes (except X-ray tubes).....	1	100.0	4.1	27.0	-	13.8	-	55.1	-
3679	Miscellaneous electronic components and accessories.....	1	100.0	.5	22.1	3.4	43.3	.4	30.3	-
38	Instruments, photographic goods, optical goods, watches, and clocks.....	22	100.0	6.5	53.3	.2	3.2	.9	35.9	-
382	Measuring, controlling, and indicating instruments.....	11	100.0	.2	52.3	-	5.4	.6	41.5	-
384	Surgical, medical, and dental instruments and supplies.....	3	100.0	-	87.0	.3	.3	-	12.2	.2
39	Miscellaneous products of manufacturing...	27	100.0	.1	87.0	.1	2.3	-	8.0	2.5
391	Jewelry, silverware, and plated ware.....	2	100.0	-	63.7	.2	5.5	-	30.4	.2

TABLE 3. Tons of Shipments—Distance and Commodity:
1963

TCC code	Commodity	Tons (thous.)	Percent distribution by distance of shipment								Sampling variability code ¹
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over	
	Total.....	8,879	100.0	42.5	22.6	10.3	4.7	12.9	4.0	3.0	
20	Food and kindred products.....	2,265	100.0	56.4	22.5	9.3	4.7	3.8	1.7	1.6	d
207	Confectionery and related products...	206	100.0	6.6	8.2	8.0	9.7	31.4	18.3	17.8	a
22	Basic textiles.....	520	100.0	33.4	17.3	5.2	1.8	39.0	1.3	2.0	d
229	Miscellaneous basic textiles.....	336	100.0	41.0	5.2	6.5	1.1	45.2	.2	.8	d
23	Apparel, including knit apparel, and other finished textile products.....	17	100.0	21.1	28.9	7.8	5.7	21.9	8.1	6.5	e
26	Pulp, paper, and allied products.....	443	100.0	36.9	39.7	4.0	9.8	8.1	.4	1.1	d
28	Chemicals and allied products.....	892	100.0	53.5	19.0	5.2	3.2	14.2	3.3	1.6	d
281	Industrial chemicals.....	465	100.0	69.6	13.1	1.7	1.2	12.6	1.0	.8	d
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	267	100.0	37.6	22.7	9.5	6.9	13.4	7.7	2.2	d
28211	Plastic materials and plasticizers, synthetic resins, and nonvulcan- izable elastomers.....	221	100.0	31.7	25.8	11.4	7.9	13.7	9.0	.5	e
289	Miscellaneous chemical products.....	57	100.0	45.4	31.2	4.5	2.5	12.3	1.6	2.5	e
30	Rubber and miscellaneous plastics products.....	260	100.0	38.0	12.0	6.6	7.7	19.2	7.3	9.2	b
302	Rubber footwear (including rubber and plastic combined).....	66	100.0	49.3	3.2	2.6	12.7	20.4	4.6	7.2	b
306	Miscellaneous fabricated rubber products.....	72	100.0	10.4	13.1	12.1	7.7	35.2	5.5	16.0	b
30619	Fabricated rubber products, n.e.c....	42	100.0	16.0	13.8	16.2	5.2	24.1	6.5	18.2	b
307	Miscellaneous plastic products.....	117	100.0	48.7	14.5	5.6	5.1	9.5	10.2	6.4	d
31	Leather and leather products.....	219	100.0	18.9	24.0	10.2	9.4	13.2	20.6	3.7	c
314	Footwear (except rubber).....	57	100.0	18.2	12.8	9.3	11.1	19.0	15.4	14.2	d
32	Stone, clay, and glass products.....	254	100.0	33.7	22.9	7.3	3.9	25.8	1.3	5.1	d
33	Primary metal products.....	1,122	100.0	23.9	29.5	5.3	4.8	18.9	10.8	6.8	d
331	Steel works and rolling mill products.....	700	100.0	26.2	40.5	6.0	3.7	21.8	.6	1.2	e
3315	Steel wire, nails, and spikes.....	253	100.0	29.3	4.4	3.9	4.6	55.3	1.4	1.1	e
335	Nonferrous metal basic shapes.....	325	100.0	11.5	7.7	2.4	5.6	16.1	36.0	20.7	b
3357	Nonferrous wire (including insulated wire).....	305	100.0	11.6	7.6	2.4	4.6	14.8	37.8	21.2	b
33574	Wire and cable, insulated, enameled or covered.....	249	100.0	12.0	5.3	2.5	2.0	11.6	44.6	22.0	a
34	Fabricated metal products.....	325	100.0	27.3	12.7	12.7	8.2	20.3	13.1	5.7	c
342	Cutlery, hand tools, and general hardware.....	35	100.0	19.7	11.7	7.1	9.7	37.8	9.4	4.6	d
345	Bolts, nuts, screws, rivets, washers, and other industrial fasteners.....	23	100.0	20.7	21.7	7.3	9.1	21.1	16.9	3.2	d
349	Miscellaneous fabricated metal products.....	86	100.0	31.8	14.7	12.4	10.1	20.2	5.2	5.6	d
3494	Valves and pipe fittings (except plumbers' brass goods and fittings).	50	100.0	17.4	17.8	14.2	12.9	25.1	5.1	7.5	e
34941	Metal valves for piping, plumbing, and heating systems.....	21	100.0	27.8	16.3	1.8	9.7	17.2	10.7	16.5	e
35	Machinery, except electrical.....	316	100.0	20.4	15.5	5.3	10.5	33.9	5.7	8.7	b
354	Metalworking machinery and equipment.	20	100.0	15.9	9.7	2.5	51.2	10.1	7.9	2.7	d
355	Special industry machinery (except metalworking machinery).....	119	100.0	20.2	10.2	2.5	2.6	51.6	6.1	6.8	b

See footnote at end of table.

TABLE 3. Tons of Shipments—Distance and Commodity:
1963—Continued

TCC code	Commodity	Tons (thous.)	Percent distribution by distance of shipment								Sampling variability code ¹
			All distances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over	
3552	Textile machinery.....	91	100.0	17.0	4.8	2.8	1.3	63.9	6.4	3.8	b
356	General industrial machinery and equipment.....	31	100.0	21.2	26.1	4.3	10.4	18.9	10.2	8.9	d
359	Miscellaneous machinery and parts (except electrical).....	74	100.0	18.7	24.7	11.1	8.3	31.0	3.2	3.0	e
36	Electrical machinery and equipment...	245	100.0	36.6	21.1	7.9	7.3	12.8	6.4	7.9	d
361	Electrical transmission and distribution equipment.....	8	100.0	5.7	15.3	43.5	2.4	10.1	17.0	6.0	d
3611	Electrical measuring instruments and test equipment.....	2	100.0	8.9	42.4	14.3	6.0	13.4	3.4	11.6	b
36113	Indicating, recording, and measuring instruments (electrical qualities or characteristics).....	2	100.0	8.5	42.9	14.5	5.3	13.6	3.5	11.7	b
364	Electric lighting and wiring equipment.....	55	100.0	21.9	32.6	8.3	6.6	18.5	4.9	7.2	c
3643	Current carrying wiring devices (including lightning rods).....	27	100.0	19.1	38.0	5.7	3.4	22.6	8.0	3.2	d
367	Electronic components or accessories.	4	100.0	29.7	11.0	6.9	12.2	24.8	5.0	10.4	c
3671	Electronic tubes (except X-ray tubes).....	1	100.0	2.6	9.0	6.7	8.5	54.7	2.2	16.3	c
3679	Miscellaneous electronic components and accessories.....	1	100.0	25.1	14.5	10.7	4.3	21.5	7.4	16.5	b
38	Instruments, photographic goods, optical goods, watches, and clocks..	28	100.0	8.3	28.6	7.4	10.0	19.3	7.1	19.3	c
382	Measuring, controlling, and indicating instruments.....	10	100.0	4.9	23.0	6.5	8.9	19.1	7.1	30.5	e
384	Surgical, medical, and dental instruments and supplies.....	5	100.0	16.4	46.3	2.2	6.7	15.3	3.5	9.6	e
39	Miscellaneous products of manufacturing.....	38	100.0	23.2	19.7	3.7	9.5	19.6	6.8	17.5	d
391	Jewelry, silverware, and plated ware.	2	100.0	10.3	17.5	5.9	7.6	17.3	15.8	25.6	e

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by production area ¹ of destination								
			Total	1 ²	2	3	4	5	6	7	8
	Total.....	8,879	100.0	21.2	7.1	6.8	4.2	1.7	0.4	0.4	0.5
20	Food and kindred products.....	2,265	100.0	27.9	4.2	1.4	.8	.2	.2	.4	.1
207	Confectionery and related products....	206	100.0	3.3	1.1	4.9	.8	2.5	1.1	3.8	.1
22	Basic textiles.....	520	100.0	19.5	.1	12.4	3.2	.7	.5	.7	-
229	Miscellaneous basic textiles.....	336	100.0	27.8	.1	1.3	1.4	.4	.2	1.0	-
23	Apparel, including knit apparel, and other finished textile products.....	17	100.0	14.5	4.9	13.0	5.9	3.4	.4	-	.5
26	Pulp, paper, and allied products.....	443	100.0	19.3	5.5	14.8	18.7	2.1	.2	.1	4.2
28	Chemicals and allied products.....	892	100.0	30.1	8.8	7.4	4.0	1.9	1.4	.1	-
281	Industrial chemicals.....	465	100.0	38.3	10.8	1.4	1.9	.5	-	-	-
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	267	100.0	22.1	8.0	19.6	7.0	3.3	4.5	.2	-
28211	Plastic materials and plasticizers, synthetic resins, and nonvulcanizable elastomers.....	221	100.0	12.9	9.6	22.4	8.1	3.9	5.4	.3	-
289	Miscellaneous chemical products.....	57	100.0	24.7	5.1	3.6	2.1	4.1	-	-	.2
30	Rubber and miscellaneous plastics products.....	260	100.0	23.2	12.4	4.9	3.0	4.5	.3	.1	3.0
302	Rubber footwear (including rubber and plastic combined).....	66	100.0	15.8	32.9	2.7	.2	2.0	.6	.1	8.5
306	Miscellaneous fabricated rubber products.....	72	100.0	5.3	1.5	6.6	2.0	11.0	.4	.1	2.8
30619	Fabricated rubber products, n.e.c.....	42	100.0	7.6	2.2	7.0	1.0	14.4	.1	.2	.2
307	Miscellaneous plastic products.....	117	100.0	39.5	7.0	3.3	5.3	2.1	.1	-	.1
31	Leather and leather products.....	219	100.0	8.2	.4	17.5	1.7	.9	.4	1.5	5.0
314	Footwear (except rubber).....	57	100.0	8.7	.6	9.6	5.6	3.0	1.6	.1	.3
32	Stone, clay, and glass products.....	254	100.0	22.8	7.9	14.2	3.3	1.5	-	.5	.2
33	Primary metal products.....	1,122	100.0	10.1	7.4	19.0	9.7	4.1	.2	.1	-
331	Steel works and rolling mill products.....	700	100.0	7.1	9.9	28.3	11.7	5.5	.1	-	-
3315	Steel wire, nails, and spikes.....	253	100.0	5.9	10.9	2.0	1.7	2.5	.3	-	-
335	Nonferrous metal basic shapes.....	325	100.0	8.8	1.6	3.1	3.1	.7	.5	.2	-
3357	Nonferrous wire (including insulated wire).....	305	100.0	8.8	1.6	3.1	2.9	.8	.5	.2	-
33574	Wire and cable, insulated, enameled or covered.....	249	100.0	10.4	1.4	2.2	1.6	.6	.2	.3	-
34	Fabricated metal products.....	325	100.0	12.8	5.1	5.4	4.9	1.7	1.3	.4	.3
342	Cutlery, hand tools, and general hardware.....	35	100.0	5.5	8.0	7.2	3.8	1.1	.9	1.0	-
345	Bolts, nuts, screws, rivets, washers, and other industrial fasteners.....	23	100.0	4.7	9.6	11.6	3.8	2.1	.2	1.7	.3
349	Miscellaneous fabricated metal products.....	86	100.0	18.2	5.1	11.3	2.8	3.4	.1	.2	.9
3494	Valves and pipe fittings (except plumbers' brass goods and fittings)..	50	100.0	3.8	.9	16.9	3.8	4.6	.2	-	.5
34941	Metal valves for piping, plumbing, and heating systems.....	21	100.0	1.8	1.1	8.1	5.2	1.1	.5	.1	1.1
35	Machinery, except electrical.....	316	100.0	13.0	2.9	5.0	3.9	2.9	.9	.1	1.1
354	Metalworking machinery and equipment..	20	100.0	11.4	9.0	1.5	.7	1.6	.5	.2	.9
355	Special industry machinery (except metalworking machinery).....	119	100.0	15.4	.4	1.6	2.6	.3	.1	.1	1.4

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15	16	17	18
	Total.....	2.1	1.0	1.8	0.9	1.2	0.6	2.9	0.1	0.1	0.6
20	Food and kindred products.....	4.3	1.6	1.5	.4	-	.2	1.2	-	-	-
207	Confectionery and related products....	.4	1.2	8.6	2.3	.2	1.9	12.6	-	.4	-
22	Basic textiles.....	.1	.1	.6	.5	.2	.2	1.0	.1	-	.2
229	Miscellaneous basic textiles.....	.2	-	.1	.1	-	-	.3	.1	.1	.1
23	Apparel, including knit apparel, and other finished textile products.....	5.5	1.8	.8	.2	1.1	1.0	6.5	1.0	.7	.3
26	Pulp, paper, and allied products.....	.6	1.5	.2	.3	.4	.1	1.7	.2	-	-
28	Chemicals and allied products.....	1.4	.8	4.0	.2	.5	.1	1.0	.2	-	.1
281	Industrial chemicals.....	2.5	-	5.9	.1	.5	-	.9	-	-	-
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	.1	2.0	2.3	-	.5	.1	1.3	-	-	-
28211	Plastic materials and plasticizers, synthetic resins, and nonvulcanizable elastomers.....	.1	2.3	2.5	-	.6	.1	1.5	-	-	-
289	Miscellaneous chemical products.....	1.0	.9	1.8	2.1	-	-	.5	3.0	.1	.1
30	Rubber and miscellaneous plastics products.....	1.0	1.4	.6	1.5	2.5	.6	2.3	.4	.6	1.5
302	Rubber footwear (including rubber and plastic combined).....	-	.1	1.5	1.4	.4	1.0	5.3	.1	.1	2.0
306	Miscellaneous fabricated rubber products.....	.2	1.1	.3	1.2	7.1	.7	1.9	.6	1.6	.3
30619	Fabricated rubber products, n.e.c.....	.3	1.7	.4	1.1	.5	.6	2.5	.3	2.1	.5
307	Miscellaneous plastic products.....	1.9	2.4	.3	1.7	1.0	.4	.9	.5	.3	2.1
31	Leather and leather products.....	.3	.3	1.3	.3	.8	3.2	.7	.1	.6	16.1
314	Footwear (except rubber).....	.7	1.1	4.9	1.3	3.1	1.7	2.1	.1	2.2	5.0
32	Stone, clay, and glass products.....	7.1	.4	6.0	.1	.3	.4	16.5	-	-	.1
33	Primary metal products.....	.3	.8	2.6	2.5	5.8	.2	6.5	.1	-	.8
331	Steel works and rolling mill products.....	-	.7	2.9	1.5	9.0	.1	7.8	-	-	-
3315	Steel wire, nails, and spikes.....	.1	1.7	5.4	-	24.6	.2	21.6	-	-	-
335	Nonferrous metal basic shapes.....	.4	1.2	1.5	2.7	.8	.1	5.7	.4	.1	2.6
3357	Nonferrous wire (including insulated wire).....	.4	1.0	.9	2.8	.7	.1	5.3	.2	-	2.6
33574	Wire and cable, insulated, enameled or covered.....	.5	1.2	.9	.3	.5	.1	3.9	.1	-	2.0
34	Fabricated metal products.....	2.2	1.3	.5	.7	2.7	.6	7.4	.6	.3	.3
342	Cutlery, hand tools, and general hardware.....	1.6	.9	.6	.2	11.3	1.9	5.5	4.2	.9	.5
345	Bolts, nuts, screws, rivets, washers, and other industrial fasteners.....	1.4	1.0	1.1	.7	.4	4.8	1.9	.7	1.3	.3
349	Miscellaneous fabricated metal products.....	6.6	2.8	.6	1.7	.7	.2	.7	.3	.1	.5
3494	Valves and pipe fittings (except plumbers' brass goods and fittings)..	6.0	4.6	.9	2.1	.3	.4	.9	.5	.1	-
34941	Metal valves for piping, plumbing, and heating systems.....	1.6	7.0	.7	-	.7	.9	2.1	1.3	.3	.1
35	Machinery, except electrical.....	.9	2.0	1.8	4.3	2.1	.4	2.3	.5	.3	1.1
354	Metalworking machinery and equipment..	.1	.1	.8	42.8	2.2	.9	2.1	.4	.4	.4
355	Special industry machinery (except metalworking machinery).....	.1	.8	-	-	.1	.1	.2	.4	-	.1

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									Sampling variability code ³
		19	20	21	22	23	24	25	30	50	
	Total.....	0.2	0.2	0.2	0.1	0.1	0.5	0.8	14.9	29.4	
20	Food and kindred products.....	.2	-	-	-	-	.5	.9	12.5	41.5	d
207	Confectionery and related products....	2.4	.4	-	-	.3	5.0	9.7	22.9	14.1	a
22	Basic textiles.....	-	.2	-	.3	-	.1	.7	18.3	40.3	d
229	Miscellaneous basic textiles.....	-	-	-	-	-	-	.1	15.4	51.3	d
23	Apparel, including knit apparel, and other finished textile products.....	.1	-	1.0	.8	-	1.2	1.6	15.7	18.1	e
26	Pulp, paper, and allied products.....	.2	.2	.6	-	-	-	.2	10.4	18.5	d
28	Chemicals and allied products.....	.2	.1	.1	-	-	.7	.1	14.1	22.7	d
281	Industrial chemicals.....	-	-	-	-	-	.5	-	17.3	19.4	d
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	.3	-	-	-	-	1.2	.2	10.3	17.0	d
28211	Plastic materials and plasticizers, synthetic resins, and nonvulcanizable elastomers.....	-	-	-	-	-	.1	.2	11.7	18.3	e
289	Miscellaneous chemical products.....	-	-	.1	-	.6	.3	-	12.1	37.6	e
30	Rubber and miscellaneous plastics products.....	.5	1.8	.9	.3	.5	.9	1.1	17.6	12.6	b
302	Rubber footwear (including rubber and plastic combined).....	.9	.2	1.0	.6	1.5	.6	1.0	15.0	4.5	b
306	Miscellaneous fabricated rubber products.....	.5	.3	2.2	.2	-	2.5	1.9	30.1	17.6	b
30619	Fabricated rubber products, n.e.c.....	.9	.5	2.8	.3	.1	.1	1.5	22.6	28.5	b
307	Miscellaneous plastic products.....	.2	3.6	.2	.2	.3	.1	.6	11.7	14.2	d
31	Leather and leather products.....	.4	.1	.1	-	.1	.2	2.4	17.9	19.5	c
314	Footwear (except rubber).....	1.1	.2	.5	.1	.3	.8	9.0	26.9	9.4	d
32	Stone, clay, and glass products.....	-	.1	.4	.1	-	2.2	1.4	4.2	10.3	d
33	Primary metal products.....	-	.1	.1	.2	.1	.6	1.4	3.6	23.7	d
331	Steel works and rolling mill products.....	-	-	-	-	-	-	1.0	2.6	11.8	e
3315	Steel wire, nails, and spikes.....	-	-	-	-	-	-	.6	4.7	17.8	e
335	Nonferrous metal basic shapes.....	.1	.5	.2	.7	.3	2.1	2.6	6.0	54.0	b
3357	Nonferrous wire (including insulated wire).....	.1	.3	.2	.7	.1	2.2	2.5	5.7	56.3	b
33574	Wire and cable, insulated, enameled or covered.....	.2	.3	.2	.2	.1	1.8	2.8	4.6	63.6	a
34	Fabricated metal products.....	.3	.2	3.2	.2	.2	.7	.4	18.3	28.0	c
342	Cutlery, hand tools, and general hardware.....	1.4	.7	.1	.1	.9	.8	.8	24.7	15.4	d
345	Bolts, nuts, screws, rivets, washers, and other industrial fasteners.....	-	.2	-	1.8	.7	.1	.2	18.7	30.7	d
349	Miscellaneous fabricated metal products.....	.4	.3	.4	-	.1	1.9	.7	23.0	17.0	d
3494	Valves and pipe fittings (except plumbers' brass goods and fittings)..	.6	.4	.7	-	.2	1.5	1.2	32.8	16.1	e
34941	Metal valves for piping, plumbing, and heating systems.....	.2	1.1	1.6	-	.4	2.3	2.8	44.9	13.0	e
35	Machinery, except electrical.....	2.1	.2	.3	.3	-	.4	1.9	18.4	30.9	b
354	Metalworking machinery and equipment..	.1	.3	-	.2	-	.6	1.3	11.9	9.6	d
355	Special industry machinery (except metalworking machinery).....	4.4	-	-	.3	-	.2	2.5	21.8	47.1	b

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Tons (thous.)	Percent distribution by production area ¹ of destination								
			Total	1 ²	2	3	4	5	6	7	8
3552	Textile machinery.....	91	100.0	14.3	0.1	1.6	3.0	0.4	-	-	-
356	General industrial machinery and equipment.....	31	100.0	8.6	5.9	15.4	1.3	1.4	0.7	0.1	0.2
359	Miscellaneous machinery and parts (except electrical).....	74	100.0	8.7	5.7	8.6	4.9	8.8	1.7	.1	.8
36	Electrical machinery and equipment....	245	100.0	17.1	16.3	5.8	3.1	3.3	1.6	.1	.1
361	Electrical transmission and distribution equipment.....	8	100.0	3.3	.4	10.5	4.0	.6	.1	-	.8
3611	Electrical measuring instruments and test equipment.....	2	100.0	2.2	.8	33.0	6.2	1.4	.2	-	2.6
36113	Indicating, recording, and measuring instruments (electrical qualities or characteristics).....	2	100.0	1.8	.8	33.4	6.3	1.4	.2	-	2.6
364	Electric lighting and wiring equipment.....	55	100.0	15.9	7.0	10.9	5.3	1.5	.6	.3	.2
3643	Current carrying wiring devices (including lightning rods).....	27	100.0	17.3	2.6	19.4	7.7	2.8	.1	.1	.4
367	Electronic components or accessories..	4	100.0	24.2	.9	7.0	4.2	2.6	9.4	.1	.1
3671	Electronic tubes (except X-ray tubes).....	1	100.0	1.5	1.2	5.7	5.4	3.4	3.9	.1	.2
3679	Miscellaneous electronic components and accessories.....	1	100.0	16.5	.9	8.1	6.5	2.3	.9	-	.1
38	Instruments, photographic goods, optical goods, watches, and clocks...	28	100.0	5.6	1.9	12.9	12.3	3.0	1.5	1.0	1.4
382	Measuring, controlling, and indicating instruments.....	10	100.0	3.4	2.1	6.9	11.0	2.3	1.1	2.0	.1
384	Surgical, medical, and dental instruments and supplies.....	5	100.0	12.0	.2	13.0	32.4	.6	.3	.3	4.3
39	Miscellaneous products of manufacturing.....	38	100.0	17.7	1.7	12.7	1.0	1.0	2.3	.1	.3
391	Jewelry, silverware, and plated ware..	2	100.0	9.2	.4	10.2	3.2	5.8	1.8	-	.3

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15	16	17	18
3552	Textile machinery.....	-	1.1	-	-	-	-	-	-	-	-
356	General industrial machinery and equipment.....	5.3	1.5	4.5	3.2	2.9	0.6	2.6	0.5	0.5	4.4
359	Miscellaneous machinery and parts (except electrical).....	.7	2.7	1.1	.5	5.2	1.0	3.6	.1	.7	.1
36	Electrical machinery and equipment....	2.3	1.2	.9	1.6	1.7	.9	2.8	.3	.3	-
361	Electrical transmission and distribution equipment.....	40.1	.1	.1	.3	.6	.4	.6	.1	.4	.3
3611	Electrical measuring instruments and test equipment.....	4.8	-	.5	.1	.8	.9	1.1	.3	.3	.3
36113	Indicating, recording, and measuring instruments (electrical qualities or characteristics).....	4.9	-	.5	.1	.8	.9	1.1	.3	.3	.3
364	Electric lighting and wiring equipment.....	1.6	3.5	.5	.9	.9	.1	7.3	.3	.6	-
3643	Current carrying wiring devices (including lightning rods).....	1.7	1.2	.6	.9	.8	.1	12.0	.5	.6	-
367	Electronic components or accessories..	2.3	.5	.7	.1	1.5	4.2	8.8	-	.4	.1
3671	Electronic tubes (except X-ray tubes).....	.4	1.1	1.6	.2	-	16.4	29.0	-	-	-
3679	Miscellaneous electronic components and accessories.....	5.8	.6	1.0	.2	.5	1.5	7.6	.1	.8	.1
38	Instruments, photographic goods, optical goods, watches, and clocks...	1.7	2.2	1.9	.2	3.2	.2	3.3	.1	.3	1.1
382	Measuring, controlling, and indicating instruments.....	.3	3.3	.7	.1	1.2	.2	.8	.1	-	1.5
384	Surgical, medical, and dental instruments and supplies.....	.7	1.0	.1	.1	1.9	.3	2.5	.1	.8	.4
39	Miscellaneous products of manufacturing.....	1.5	2.1	1.4	1.6	.4	.5	10.8	.5	1.5	1.2
391	Jewelry, silverware, and plated ware..	.1	1.3	1.6	.2	1.0	1.5	2.5	.9	4.7	.8

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									Sampling variability code ³
		19	20	21	22	23	24	25	30	50	
3552	Textile machinery.....	5.7	-	-	-	-	-	-	23.8	50.0	b
356	General industrial machinery and equipment.....	.3	1.2	0.2	0.6	0.5	1.4	2.3	15.7	18.2	d
359	Miscellaneous machinery and parts (except electrical).....	.5	.1	.8	-	-	.3	.1	10.8	32.4	e
36	Electrical machinery and equipment....	.7	.7	.4	.4	1.3	.6	3.3	18.1	15.1	d
361	Electrical transmission and distribution equipment.....	.1	.2	2.1	.1	-	.8	1.4	22.9	9.7	d
3611	Electrical measuring instruments and test equipment.....	.3	.6	.4	.2	.1	2.4	3.7	15.9	20.9	b
36113	Indicating, recording, and measuring instruments (electrical qualities or characteristics).....	.3	.6	.4	.3	.1	2.4	3.7	15.4	21.1	b
364	Electric lighting and wiring equipment.....	.7	.4	.1	.2	-	1.0	5.1	12.0	23.1	c
3643	Current carrying wiring devices (including lightning rods).....	.3	-	-	.3	-	.1	2.3	12.3	15.9	d
367	Electronic components or accessories..	.1	.8	.3	.1	.2	1.8	3.1	14.2	12.3	c
3671	Electronic tubes (except X-ray tubes).....	-	1.5	1.0	-	-	3.6	4.6	13.7	5.5	c
3679	Miscellaneous electronic components and accessories.....	.3	1.5	.4	.2	.6	1.5	4.9	14.2	22.9	b
38	Instruments, photographic goods, optical goods, watches, and clocks...	.8	1.8	.9	.2	.6	3.7	7.3	16.5	14.4	c
382	Measuring, controlling, and indicating instruments.....	1.0	2.0	1.7	.1	.4	7.0	13.1	16.4	21.2	e
384	Surgical, medical, and dental instruments and supplies.....	-	.2	.1	.1	.2	.4	1.8	12.1	14.1	e
39	Miscellaneous products of manufacturing.....	.2	2.3	.2	.2	.2	2.7	7.3	14.4	14.2	d
391	Jewelry, silverware, and plated ware..	.6	3.1	2.9	.2	4.1	.7	6.8	21.1	15.0	e

¹See description of production areas on page 313.

²Includes only those shipments that originated in one city in this area and terminated in another city in this area.

³Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 5. Ton-Miles of Shipments—Production Area Destination and Commodity: 1963

TCC code	Commodity	Ton-miles (millions)	Percent distribution by production area ¹ of destination								
			Total	1 ²	2	3	4	5	6	7	8
	Total.....	2,695	100.0	2.3	2.2	3.6	2.5	1.3	0.5	0.3	0.6
20	Food and kindred products.....	414	100.0	4.5	1.8	1.3	.7	.4	.3	.4	.1
207	Confectionery and related products....	201	100.0	.1	.1	.9	.2	.7	.4	.9	-
22	Basic textiles.....	211	100.0	1.1	-	5.0	1.4	.4	.4	.5	-
229	Miscellaneous basic textiles.....	133	100.0	1.6	-	.5	.7	.3	.2	.7	-
23	Apparel, including knit apparel, and other finished textile products.....	9	100.0	.9	1.0	4.5	2.3	1.7	.3	-	.3
26	Pulp, paper, and allied products.....	96	100.0	3.1	2.1	10.8	15.0	2.7	.4	.1	7.0
28	Chemicals and allied products.....	223	100.0	4.0	2.4	4.7	3.3	2.1	2.0	.1	-
281	Industrial chemicals.....	80	100.0	7.5	3.8	1.4	2.1	.8	.1	-	-
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	89	100.0	1.7	1.6	9.1	4.3	2.7	5.0	.2	-
28211	Plastic materials and plasticizers, synthetic resins, and nonvulcanizable elastomers.....	70	100.0	1.5	2.0	10.8	5.2	3.4	6.3	.2	-
289	Miscellaneous chemical products.....	16	100.0	3.1	1.9	2.5	1.5	4.0	.1	-	.2
30	Rubber and miscellaneous plastics products.....	133	100.0	1.4	2.2	1.6	1.0	2.1	.2	-	1.8
302	Rubber footwear (including rubber and plastic combined).....	30	100.0	.8	6.4	1.1	.1	1.2	.4	-	5.7
306	Miscellaneous fabricated rubber products.....	57	100.0	.2	.2	1.4	.5	3.3	.2	-	1.1
30619	Fabricated rubber products, n.e.c.....	33	100.0	.3	.2	1.5	.2	4.4	-	.1	.1
307	Miscellaneous plastic products.....	46	100.0	3.2	1.7	1.4	2.3	1.4	.1	-	.1
31	Leather and leather products.....	114	100.0	.4	.1	6.2	.6	.5	.3	.8	3.2
314	Footwear (except rubber).....	43	100.0	.2	.1	2.3	1.5	1.1	.7	-	.1
32	Stone, clay, and glass products.....	105	100.0	2.6	1.3	5.3	1.3	.8	-	.3	.1
33	Primary metal products.....	548	100.0	.7	1.1	5.8	3.3	1.8	.2	-	-
331	Steel works and rolling mill products.....	203	100.0	.8	2.6	14.8	6.5	4.0	.2	-	-
3315	Steel wire, nails, and spikes.....	118	100.0	.5	1.5	.6	.6	1.2	.2	-	-
335	Nonferrous metal basic shapes.....	324	100.0	.2	.1	.5	.5	.2	.2	.1	-
3357	Nonferrous wire (including insulated wire).....	310	100.0	.2	.1	.5	.5	.2	.2	.1	-
33574	Wire and cable, insulated, enameled or covered.....	264	100.0	.2	.1	.3	.3	.1	.1	.1	-
34	Fabricated metal products.....	169	100.0	.5	.8	1.8	1.9	.9	.9	.2	.2
342	Cutlery, hand tools, and general hardware.....	21	100.0	.3	.9	2.1	1.2	.5	.5	.4	-
345	Bolts, nuts, screws, rivets, washers, and other industrial fasteners.....	11	100.0	.2	1.7	3.8	1.3	1.1	.1	.9	.2
349	Miscellaneous fabricated metal products.....	38	100.0	.8	.6	4.8	1.2	2.2	.1	.1	.6
3494	Valves and pipe fittings (except plumbers' brass goods and fittings)..	27	100.0	.3	.1	6.0	1.4	2.5	.1	-	.3
34941	Metal valves for piping, plumbing, and heating systems.....	14	100.0	.1	.1	2.0	1.4	.5	.2	-	.5
35	Machinery, except electrical.....	182	100.0	.6	.5	1.4	1.2	1.2	.6	.1	.6
354	Metalworking machinery and equipment..	10	100.0	.5	2.3	.5	.3	.9	.4	.1	.6
355	Special industry machinery (except metalworking machinery).....	74	100.0	.6	.1	.4	.7	.1	.1	-	.8

See footnotes at end of table.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15	16	17	18
	Total.....	1.4	1.2	3.1	1.4	2.3	1.3	8.0	0.3	0.4	2.1
20	Food and kindred products.....	5.1	3.3	4.6	.9	.1	1.0	5.3	-	.3	-
207	Confectionery and related products....	.1	.5	4.8	1.1	.1	1.4	11.0	-	.5	-
22	Basic textiles.....	.1	.1	.7	.6	.3	.3	2.1	.1	.1	.5
229	Miscellaneous basic textiles.....	.1	-	.1	.2	.1	.1	.6	.1	.1	.4
23	Apparel, including knit apparel, and other finished textile products.....	1.8	1.3	.8	.2	1.3	1.4	10.9	1.7	1.5	.7
26	Pulp, paper, and allied products.....	.6	2.2	.6	.6	1.0	.4	6.6	.9	.1	-
28	Chemicals and allied products.....	.8	1.4	8.6	.3	1.1	.2	3.2	.7	.1	.3
281	Industrial chemicals.....	2.1	-	18.4	.2	1.9	.1	4.6	.1	-	-
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	-	2.6	3.6	-	.9	.2	3.1	-	-	.1
28211	Plastic materials and plasticizers, synthetic resins, and nonvulcanizable elastomers.....	-	3.1	4.0	-	1.1	.2	3.9	-	-	.1
289	Miscellaneous chemical products.....	.6	1.2	3.5	3.9	-	-	1.5	9.4	.6	.2
30	Rubber and miscellaneous plastics products.....	.3	1.0	.6	1.3	2.9	.9	3.7	.7	1.4	3.1
302	Rubber footwear (including rubber and plastic combined).....	-	.1	1.6	1.4	.5	1.7	9.8	.2	.3	4.5
306	Miscellaneous fabricated rubber products.....	-	.5	.2	.7	5.4	.6	2.1	.7	2.3	.4
30619	Fabricated rubber products, n.e.c.....	.1	.9	.3	.7	.4	.6	2.7	.3	3.1	.7
307	Miscellaneous plastic products.....	.8	2.3	.4	2.0	1.5	.8	1.9	1.0	1.0	5.5
31	Leather and leather products.....	.1	.2	1.2	.3	1.0	4.5	1.1	.1	1.2	32.1
314	Footwear (except rubber).....	.2	.6	3.1	.8	2.6	1.6	2.4	.1	3.3	6.8
32	Stone, clay, and glass products.....	3.2	.3	7.4	.1	.5	.6	32.5	.1	.1	.2
33	Primary metal products.....	.1	.6	2.6	2.3	6.9	.3	11.0	.2	.1	1.6
331	Steel works and rolling mill products.....	-	.9	4.8	2.4	17.9	.2	21.7	.1	-	.1
3315	Steel wire, nails, and spikes.....	-	1.4	5.3	-	30.8	.3	37.5	-	-	.1
335	Nonferrous metal basic shapes.....	.1	.4	.8	1.2	.5	.1	4.7	.3	.2	2.6
3357	Nonferrous wire (including insulated wire).....	.1	.4	.5	1.2	.4	.1	4.3	.2	-	2.6
33574	Wire and cable, insulated, enameled or covered.....	.1	.4	.4	.1	.3	.1	3.1	.1	-	1.9
34	Fabricated metal products.....	1.0	1.0	.5	.6	3.2	.8	12.1	1.0	.6	.5
342	Cutlery, hand tools, and general hardware.....	.5	.6	.5	.2	11.6	2.2	7.8	6.0	1.7	.8
345	Bolts, nuts, screws, rivets, washers, and other industrial fasteners.....	.6	.7	1.1	.6	.5	6.7	3.1	1.2	2.8	.6
349	Miscellaneous fabricated metal products.....	3.5	2.5	.8	1.9	.9	.3	1.4	.6	.2	1.3
3494	Valves and pipe fittings (except plumbers' brass goods and fittings)..	2.8	3.4	.9	1.9	.4	.5	1.4	.8	.3	-
34941	Metal valves for piping, plumbing, and heating systems.....	.3	4.0	.6	-	.7	.9	2.6	1.5	.5	.1
35	Machinery, except electrical.....	.3	1.2	1.6	3.4	2.2	.5	3.3	.7	.6	2.0
354	Metalworking machinery and equipment..	.1	.1	.9	39.7	2.8	1.4	3.7	.7	.9	.9
355	Special industry machinery (except metalworking machinery).....	-	.5	-	-	.1	.1	.3	.6	-	.2

See footnotes at end of table.

TABLE 5. Ton-Miles of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued								
		19	20	21	22	23	24	25	30	50
	Total.....	0.7	0.8	1.2	0.5	0.8	4.0	7.1	18.0	32.1
20	Food and kindred products.....	1.1	.3	-	-	.4	6.7	12.5	18.3	30.6
207	Confectionery and related products....	2.3	.6	-	-	.9	13.7	25.9	25.5	8.3
22	Basic textiles.....	.1	.9	.1	1.2	.2	.7	4.7	18.5	59.9
229	Miscellaneous basic textiles.....	.1	.1	.1	.1	.2	.2	.4	17.2	75.8
23	Apparel, including knit apparel, and other finished textile products.....	.1	.1	3.2	2.8	.1	6.2	8.2	25.3	21.4
26	Pulp, paper, and allied products.....	.8	1.4	4.2	.3	.1	.1	2.3	13.8	22.8
28	Chemicals and allied products.....	.7	.5	.4	.1	.5	7.4	1.2	18.6	35.3
281	Industrial chemicals.....	.1	-	-	-	-	8.3	-	23.5	25.0
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	.8	.1	-	.1	.1	10.0	1.3	12.4	40.1
28211	Plastic materials and plasticizers, synthetic resins, and nonvulcanizable elastomers.....	-	.1	.1	.1	.1	.7	1.6	9.8	45.7
289	Miscellaneous chemical products.....	-	.1	.3	-	5.4	2.8	.3	30.7	26.2
30	Rubber and miscellaneous plastics products.....	.8	5.2	2.8	.9	2.6	4.7	5.4	36.0	15.4
302	Rubber footwear (including rubber and plastic combined).....	1.7	.8	3.3	2.1	8.3	3.4	5.6	27.7	11.3
306	Miscellaneous fabricated rubber products.....	.6	.6	4.4	.5	.1	8.6	6.2	45.6	13.6
30619	Fabricated rubber products, n.e.c.....	1.1	1.1	5.5	.6	.2	.2	5.1	47.9	21.7
307	Miscellaneous plastic products.....	.5	13.9	.7	.7	1.8	.8	4.2	29.6	20.4
31	Leather and leather products.....	.7	.2	.4	.1	.4	1.0	11.7	17.5	14.1
314	Footwear (except rubber).....	1.4	.5	1.0	.3	1.0	2.7	30.7	26.2	8.7
32	Stone, clay, and glass products.....	-	.3	1.6	.3	.1	14.2	8.6	7.7	10.5
33	Primary metal products.....	.1	.4	.2	.7	.5	3.4	7.5	6.2	42.4
331	Steel works and rolling mill products.....	-	-	-	-	-	.1	8.5	5.2	9.2
3315	Steel wire, nails, and spikes.....	-	-	-	-	-	.2	3.0	6.4	10.4
335	Nonferrous metal basic shapes.....	.1	.7	.3	1.2	.9	5.5	6.7	6.8	65.1
3357	Nonferrous wire (including insulated wire).....	.1	.4	.3	1.2	.2	5.8	6.2	6.7	67.5
33574	Wire and cable, insulated, enameled or covered.....	.1	.5	.3	.3	.2	4.6	6.8	4.6	74.9
34	Fabricated metal products.....	.5	.5	9.9	.5	.8	3.5	1.8	22.7	31.3
342	Cutlery, hand tools, and general hardware.....	2.1	1.7	.3	.4	3.8	3.6	3.4	32.2	14.7
345	Bolts, nuts, screws, rivets, washers, and other industrial fasteners.....	.1	.5	-	6.2	3.2	.3	.9	39.4	22.2
349	Miscellaneous fabricated metal products.....	.9	1.0	1.4	-	.6	11.5	4.3	29.2	27.3
3494	Valves and pipe fittings (except plumbers' brass goods and fittings).....	1.1	1.3	1.9	-	.9	7.2	5.6	33.5	25.4
34941	Metal valves for piping, plumbing, and heating systems.....	.3	2.4	3.6	.1	1.6	8.7	10.4	33.2	23.7
35	Machinery, except electrical.....	3.2	.5	.7	1.0	.2	1.8	8.5	33.2	28.9
354	Metalworking machinery and equipment..	.1	1.0	-	.9	-	3.2	7.3	15.1	15.6
355	Special industry machinery (except metalworking machinery).....	6.3	-	-	.9	-	.9	10.2	30.8	46.3

See footnotes at end of table.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**—Continued

TCC code	Commodity	Ton-miles (millions)	Percent distribution by production area ¹ of destination								
			Total	1 ²	2	3	4	5	6	7	8
3552	Textile machinery.....	57	100.0	0.6	-	0.4	0.7	0.1	-	-	-
356	General industrial machinery and equipment.....	17	100.0	.4	1.2	4.4	.5	.7	0.5	-	0.1
359	Miscellaneous machinery and parts (except electrical).....	30	100.0	.7	1.0	3.3	2.1	5.1	1.3	0.1	.6
36	Electrical machinery and equipment....	112	100.0	.9	3.7	2.2	1.4	1.9	1.2	-	.1
361	Electrical transmission and distribution equipment.....	5	100.0	.1	.1	3.3	1.4	.3	.1	-	.4
3611	Electrical measuring instruments and test equipment.....	1	100.0	.1	.2	11.1	2.3	.7	.1	-	1.5
3611.3	Indicating, recording, and measuring instruments (electrical qualities or characteristics).....	1	100.0	.1	.2	11.2	2.3	.7	.1	-	1.5
364	Electric lighting and wiring equipment.....	26	100.0	.8	1.6	3.6	2.1	.8	.5	.2	.1
364.3	Current carrying wiring devices (including lightning rods).....	12	100.0	1.0	.6	6.8	3.1	1.5	.1	.1	.2
367	Electronic components or accessories..	2	100.0	.6	.2	2.1	1.4	1.2	5.7	-	-
3671	Electronic tubes (except X-ray tubes).....	1	100.0	-	.1	1.1	1.2	1.1	1.5	-	.1
3679	Miscellaneous electronic components and accessories.....	1	100.0	.4	.1	2.0	1.7	.9	.4	-	-
38	Instruments, photographic goods, optical goods, watches, and clocks...	22	100.0	.2	.2	2.8	2.7	1.0	.6	.3	.5
382	Measuring, controlling, and indicating instruments.....	11	100.0	.1	.2	1.1	1.9	.5	.4	.4	-
384.	Surgical, medical, and dental instruments and supplies.....	3	100.0	.9	-	3.9	10.1	.3	.2	.2	2.7
39	Miscellaneous products of manufacturing.....	27	100.0	.6	.2	3.0	.2	.3	1.2	-	.1
391	Jewelry, silverware, and plated ware..	2	100.0	.3	.1	1.7	.5	1.3	.7	-	.1

See footnotes at end of table.

TABLE 5. Ton-Miles of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15	16	17	18
3552	Textile machinery.....	-	0.7	-	-	-	-	-	-	-	-
356	General industrial machinery and equipment.....	1.6	1.0	3.8	2.8	3.2	0.8	4.0	0.7	1.1	8.3
359	Miscellaneous machinery and parts (except electrical).....	.2	2.3	1.3	.5	7.7	1.7	7.3	.2	1.8	.2
36	Electrical machinery and equipment....	1.1	1.0	1.1	1.7	2.3	1.4	5.1	.6	.8	.1
361	Electrical transmission and distribution equipment.....	14.7	.1	.1	.3	.6	.5	.9	.1	.8	.5
3611	Electrical measuring instruments and test equipment.....	2.2	-	.5	.1	.9	1.2	1.6	.5	.6	.6
36113	Indicating, recording, and measuring instruments (electrical qualities or characteristics).....	2.2	-	.5	.1	.9	1.2	1.6	.5	.6	.6
364	Electric lighting and wiring equipment	.7	2.8	.6	.9	1.2	.2	12.9	.5	1.3	.1
3643	Current carrying wiring devices (including lightning rods).....	.9	1.0	.7	1.0	1.1	.2	23.1	.9	1.7	.1
367	Electronic components or accessories..	.9	.3	.6	.1	1.6	5.1	13.1	-	.7	.1
3671	Electronic tubes (except X-ray tubes).....	.1	.4	.9	.1	-	12.5	27.1	-	-	-
3679	Miscellaneous electronic components and accessories.....	1.9	.3	.8	.1	.5	1.5	9.2	.1	1.2	.1
38	Instruments, photographic goods, optical goods, watches, and clocks...	.5	1.0	1.3	.1	2.5	.1	3.5	.1	.5	1.4
382	Measuring, controlling, and indicating instruments.....	.1	1.2	.4	.1	.7	.1	.6	.1	-	1.5
384	Surgical, medical, and dental instruments and supplies.....	.2	.7	.2	.1	2.2	.4	4.1	.2	1.7	.8
39	Miscellaneous products of manufacturing.....	.5	1.1	1.1	1.1	.3	.5	12.8	.6	2.4	1.8
391	Jewelry, silverware, and plated ware..	-	.5	.9	.1	.6	1.1	2.2	.8	5.5	.9

See footnotes at end of table.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued								
		19	20	21	22	23	24	25	30	50
3552	Textile machinery.....	8.2	-	-	-	-	-	-	34.0	55.3
356	General industrial machinery and equipment.....	.4	3.3	0.6	1.8	2.0	6.6	10.5	24.3	15.4
359	Miscellaneous machinery and parts (except electrical).....	1.2	.3	3.1	-	-	2.1	.5	20.5	34.9
36	Electrical machinery and equipment....	1.4	2.3	1.3	1.5	7.2	3.8	18.5	24.6	12.8
361	Electrical transmission and distribution equipment.....	.2	.5	5.7	.2	.2	3.8	6.2	49.5	9.4
3611	Electrical measuring instruments and test equipment.....	.5	1.7	1.1	.8	.5	11.5	17.5	30.0	12.2
36113	Indicating, recording, and measuring instruments (electrical qualities or characteristics).....	.5	1.8	1.1	.8	.5	11.5	17.5	29.7	12.3
364	Electric lighting and wiring equipment.....	1.3	1.4	.2	.6	.1	5.5	27.3	16.4	16.3
3643	Current carrying wiring devices (including lightning rods).....	.7	.1	.1	1.4	-	.6	13.6	25.2	14.2
367	Electronic components or accessories..	.2	2.2	.9	.3	1.0	8.2	13.7	27.3	12.5
3671	Electronic tubes (except X-ray tubes).....	-	2.4	1.6	-	-	10.5	12.8	21.4	5.1
3679	Miscellaneous electronic components and accessories.....	.4	3.3	1.0	.5	2.1	5.6	17.8	26.9	21.2
38	Instruments, photographic goods, optical goods, watches, and clocks...	.9	3.5	1.8	.5	2.0	12.4	23.6	23.8	12.2
382	Measuring, controlling, and indicating instruments.....	.9	2.9	2.6	.1	1.0	18.0	32.2	18.6	14.3
384	Surgical, medical, and dental instruments and supplies.....	.1	.6	.4	.4	.8	1.9	9.2	42.4	15.3
39	Miscellaneous products of manufacturing.....	.3	4.9	.4	.5	.9	10.0	26.5	22.0	6.7
391	Jewelry, silverware, and plated ware..	.6	5.0	4.8	.3	10.7	2.1	18.3	26.5	14.4

¹See description of production areas on page 313.

²Includes only those shipments that originated in one city in this area and terminated in another city in this area.

Production Area 2

Production Area 2 consists of nine standard metropolitan statistical areas: Hartford, Conn.; New Britain, Conn.; Meriden, Conn.; Waterbury, Conn.; New Haven, Conn.; Bridgeport, Conn.; Norwalk, Conn.; Stamford, Conn.; and Springfield-Chicopee-Holyoke, Mass.-Conn.

Data are based on 195 plants from which 24,909 shipping documents were sampled. The sampling variability on the estimated 4.2 million tons shipped from Production Area 2 is ± 15.3 percent.

Major commodity groups shipped from Production Area 2 and their area of destinations are summarized in table A below.

Table A.—DISTRIBUTION OF TONS OF COMMODITIES SHIPPED FROM PRODUCTION AREA 2,
BY AREA OF DESTINATION

TCC code	Commodity class	Total tons (thousands)	Percent distribution by destination area			
			Production Area 2 ¹	Other produc- tion areas	Other SMSA's	Balance of country
	Total.....	² 4,187	8.0	57.1	15.5	19.4
26	Pulp, paper, and allied products.....	155	3.8	66.4	8.6	21.2
28	Chemicals and allied products.....	1,114	9.2	58.1	14.3	18.4
30	Rubber and miscellaneous plastics products....	322	7.1	61.8	15.7	15.4
33	Primary metal products.....	684	11.3	54.6	12.8	21.3
34	Fabricated metal products.....	250	12.5	59.1	14.3	14.1
35	Machinery, except electrical.....	272	5.0	69.6	13.5	11.9
36	Electrical machinery and equipment.....	196	4.2	56.4	25.8	13.6
37	Transportation equipment.....	87	3.2	41.4	41.6	13.8
38	Instruments, photographic goods, optical goods, watches, and clocks.....	33	2.0	77.2	9.6	11.2
39	Miscellaneous products of manufacturing.....	63	9.7	48.9	16.5	24.9

¹Includes only those shipments that originated in one city in this area and terminated in another city in this area.

²Includes commodity classes not shown separately.

TABLE 1. Tons of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by means of transport								Sampling variability code ¹
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown	
	Total.....	4,187	100.0	22.4	53.5	18.7	0.3	2.3	2.4	0.4	
26	Pulp, paper, and allied products.....	155	100.0	22.2	57.4	17.5	-	-	2.8	.1	b
28	Chemicals and allied products.....	1,114	100.0	33.7	45.4	18.6	-	2.0	.3	-	d
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	562	100.0	33.5	63.3	3.2	-	-	-	-	c
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	148	100.0	47.8	42.7	.8	.1	7.9	.7	-	d
2844	Perfumes, cosmetics, and other toilet preparations.....	145	100.0	48.9	43.0	-	.1	8.0	-	-	d
30	Rubber and miscellaneous plastics products.....	322	100.0	39.9	52.1	4.6	.1	-	3.3	-	b
307	Miscellaneous plastic products.....	65	100.0	13.9	76.7	5.9	.1	-	3.4	-	d
33	Primary metal products.....	684	100.0	17.6	55.4	22.6	.1	2.3	.2	1.8	b
335	Nonferrous metal basic shapes.....	522	100.0	16.3	56.5	21.4	.1	3.0	.3	2.4	b
3351	Copper, brass, bronze, and other copper base alloy basic shapes.....	262	100.0	13.1	65.7	17.6	-	-	-	3.6	c
33512	Copper, brass, bronze, and other copper base alloy plate, sheet, and strip.....	126	100.0	10.0	66.5	18.6	-	-	-	4.9	d
3357	Nonferrous wire (including insulated wire).....	217	100.0	23.2	48.7	19.2	.1	7.1	.6	1.1	d
336	Nonferrous and nonferrous base alloy castings.....	41	100.0	.3	88.8	10.4	.4	-	.1	-	e
339	Miscellaneous primary metal products.....	9	100.0	.1	86.3	9.1	.2	-	1.1	3.2	b
34	Fabricated metal products.....	250	100.0	5.7	85.4	4.2	.5	.5	3.7	-	b
342	Cutlery, hand tools, and general hardware.....	117	100.0	5.5	83.3	4.2	.7	-	6.3	-	b
3423	Hand and edge tools (except machine tools and hand saws).....	53	100.0	7.8	81.1	8.0	.1	.1	2.9	-	b
3429	Miscellaneous hardware.....	42	100.0	4.1	89.2	1.5	.7	-	4.5	-	c
35	Machinery, except electrical.....	272	100.0	22.2	53.4	2.4	.3	18.2	3.1	.4	b
354	Metalworking machinery and equipment.....	15	100.0	15.2	69.2	5.9	.2	-	9.5	-	d
355	Special industry machinery (except metalworking machinery).....	39	100.0	5.3	80.0	10.5	.1	3.0	1.1	-	d
356	General industrial machinery and equipment.....	19	100.0	10.8	81.7	.4	.9	-	4.4	1.8	b
35621	Ball and roller bearings, complete... ..	16	100.0	13.4	79.8	.1	1.0	-	5.0	.7	b
359	Miscellaneous machinery and parts (except electrical).....	173	100.0	31.2	38.3	.6	.3	28.0	1.3	.3	c
35999	Machinery and parts, n.e.c. (except electrical).....	171	100.0	31.5	37.8	.6	.3	28.3	1.2	.3	c
36	Electrical machinery and equipment... ..	196	100.0	4.4	81.3	6.2	.9	1.4	4.8	1.0	b
363	Household appliances.....	79	100.0	7.7	82.4	1.2	.3	.7	5.1	2.6	d
364	Electric lighting and wiring equipment.....	53	100.0	3.9	71.2	17.7	1.0	-	6.2	-	d
3643	Current carrying wiring devices (including lightning rods).....	40	100.0	4.7	70.8	21.6	.9	-	2.0	-	d
37	Transportation equipment.....	87	100.0	10.5	74.8	3.3	2.8	1.1	7.2	.3	d
38	Instruments, photographic goods, optical goods, watches, and clocks..	33	100.0	48.7	41.0	1.8	1.3	.9	6.3	-	d
382	Measuring, controlling, and indicating instruments.....	4	100.0	2.8	57.7	.7	6.2	7.7	24.9	-	c
38219	Mechanical measuring and controlling instruments, n.e.c.....	3	100.0	2.8	52.9	.9	4.5	10.4	28.5	-	d
39	Miscellaneous products of manufacturing.....	63	100.0	25.3	51.1	15.8	.5	.5	6.4	.4	d

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 2. Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Ton-miles (millions)	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
	Total.....	1,972	100.0	41.7	46.2	4.3	0.7	3.1	3.8	0.2
26	Pulp, paper, and allied products.....	52	100.0	50.0	34.6	8.0	-	-	7.4	-
28	Chemicals and allied products.....	594	100.0	60.1	30.4	3.5	.1	5.4	.5	-
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	272	100.0	55.1	42.2	2.7	-	-	-	-
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	195	100.0	72.7	18.1	-	-	9.2	-	-
2844	Perfumes, cosmetics, and other toilet preparations.....	194	100.0	72.8	18.0	-	-	9.2	-	-
30	Rubber and miscellaneous plastics products.....	190	100.0	59.9	35.1	.8	.1	-	4.1	-
307	Miscellaneous plastic products.....	39	100.0	30.9	59.8	2.0	.1	-	7.2	-
33	Primary metal products.....	276	100.0	37.6	47.3	5.9	.2	8.2	.5	.3
335	Nonferrous metal basic shapes.....	228	100.0	38.4	45.9	4.7	.2	9.9	.5	.4
3351	Copper, brass, bronze, and other copper base alloy basic shapes.....	83	100.0	35.9	59.0	4.1	.2	-	-	.8
33512	Copper, brass, bronze, and other copper base alloy plate, sheet, and strip.....	37	100.0	34.7	58.5	5.4	.1	-	-	1.3
3357	Nonferrous wire (including insulated wire).	137	100.0	42.1	36.0	4.4	.1	16.5	.8	.1
336	Nonferrous and nonferrous base alloy castings.....	20	100.0	1.2	94.3	3.5	.9	-	.1	-
339	Miscellaneous primary metal products.....	3	100.0	.7	88.5	.7	.5	-	8.8	.8
34	Fabricated metal products.....	127	100.0	16.9	73.2	2.4	1.3	-	6.2	-
342	Cutlery, hand tools, and general hardware.....	66	100.0	12.4	76.9	.5	1.4	-	8.8	-
3423	Hand and edge tools (except machine tools and hand saws).....	28	100.0	21.8	71.8	1.2	.3	-	4.9	-
3429	Miscellaneous hardware.....	26	100.0	4.5	83.9	.1	1.0	-	10.5	-
35	Machinery, except electrical.....	125	100.0	30.5	58.8	.3	.7	3.3	6.2	.2
354	Metalworking machinery and equipment.....	8	100.0	13.0	76.0	.5	.6	-	9.9	-
355	Special industry machinery (except metalworking machinery).....	17	100.0	18.6	77.7	1.5	.1	.7	1.4	-
356	General industrial machinery and equipment.....	12	100.0	16.7	75.1	-	1.1	-	5.7	1.4
35621	Ball and roller bearings, complete.....	11	100.0	17.7	74.5	-	1.0	-	5.9	.9
359	Miscellaneous machinery and parts (except electrical).....	71	100.0	44.6	46.6	.1	.6	5.5	2.5	.1
35999	Machinery and parts, n.e.c. (except electrical).....	70	100.0	45.4	46.1	.1	.6	5.6	2.1	.1
36	Electrical machinery and equipment.....	144	100.0	12.2	69.2	5.6	1.1	.6	10.2	1.1
363	Household appliances.....	66	100.0	19.6	65.8	.1	.3	.7	11.1	2.4
364	Electric lighting and wiring equipment.....	41	100.0	9.3	57.9	18.0	1.2	-	13.6	-
3643	Current carrying wiring devices (including lightning rods).....	32	100.0	10.4	62.5	23.2	1.2	-	2.7	-
37	Transportation equipment.....	89	100.0	15.3	70.9	.6	3.9	.1	9.1	.1
38	Instruments, photographic goods, optical goods, watches, and clocks.....	26	100.0	66.3	23.8	2.2	2.1	.2	5.4	-
382	Measuring, controlling, and indicating instruments.....	2	100.0	8.5	53.9	-	16.5	1.7	19.4	-
38219	Mechanical measuring and controlling instruments, n.e.c.....	2	100.0	8.9	54.6	.1	10.2	2.6	23.6	-
39	Miscellaneous products of manufacturing....	43	100.0	36.4	48.9	3.6	.5	.9	8.5	1.2

TABLE 3. Tons of Shipments—Distance and Commodity:
1963

TCC code	Commodity	Tons (thous.)	Percent distribution by distance of shipment								Sampling variability code ¹
			All dis- tances	Under 100 miles	100 to 199. miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over	
	Total.....	4,187	100.0	34.6	14.7	7.7	6.4	24.8	5.9	5.9	
26	Pulp, paper, and allied products.....	155	100.0	33.3	29.9	8.4	7.7	12.2	4.3	4.2	b
28	Chemicals and allied products.....	1,114	100.0	30.2	16.1	11.7	5.8	18.9	8.5	8.8	d
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	562	100.0	25.0	24.9	6.0	3.9	25.2	12.8	2.2	c
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	148	100.0	11.8	7.1	3.5	5.0	21.8	7.2	43.6	d
2844	Perfumes, cosmetics, and other toilet preparations.....	145	100.0	10.1	7.3	3.5	5.0	22.2	7.3	44.6	d
30	Rubber and miscellaneous plastics products.....	322	100.0	22.8	11.8	8.8	7.9	36.2	5.9	6.6	b
307	Miscellaneous plastic products.....	65	100.0	23.7	13.7	12.2	5.5	31.1	4.7	9.1	d
33	Primary metal products.....	684	100.0	38.9	14.6	8.6	8.1	21.0	5.0	3.8	b
335	Nonferrous metal basic shapes.....	522	100.0	39.4	13.4	6.9	8.8	20.8	5.8	4.9	b
3351	Copper, brass, bronze, and other copper base alloy basic shapes.....	262	100.0	44.4	16.8	6.9	5.3	22.1	2.7	1.8	c
33512	Copper, brass, bronze, and other copper base alloy plate, sheet, and strip.....	126	100.0	48.6	15.1	4.7	7.7	21.7	.4	1.8	d
3357	Nonferrous wire (including insulated wire).....	217	100.0	29.1	9.3	7.7	12.8	20.9	10.7	9.5	d
336	Nonferrous and nonferrous base alloy castings.....	41	100.0	32.5	9.8	1.6	.8	48.3	6.2	.8	e
339	Miscellaneous primary metal products.	9	100.0	42.1	12.2	7.6	6.7	23.8	6.0	1.6	b
34	Fabricated metal products.....	250	100.0	32.2	16.5	3.0	9.8	23.3	7.1	8.1	b
342	Cutlery, hand tools, and general hardware.....	117	100.0	32.4	9.3	2.7	12.3	25.2	11.0	7.1	b
3423	Hand and edge tools (except machine tools and hand saws).....	53	100.0	36.2	7.9	1.6	20.3	18.2	8.8	7.0	b
3429	Miscellaneous hardware.....	42	100.0	22.1	11.5	3.9	5.5	36.3	12.6	8.1	c
35	Machinery, except electrical.....	272	100.0	32.0	13.1	3.0	6.2	39.6	2.9	3.2	b
354	Metalworking machinery and equipment.	15	100.0	16.4	4.3	1.2	14.5	59.4	2.8	1.4	d
355	Special industry machinery (except metalworking machinery).....	39	100.0	22.8	39.0	3.9	3.1	20.2	6.1	4.9	d
356	General industrial machinery and equipment.....	19	100.0	19.8	4.1	8.7	13.8	41.3	6.4	5.9	b
35621	Ball and roller bearings, complete...	16	100.0	9.6	2.7	8.2	15.9	49.2	7.5	6.9	b
359	Miscellaneous machinery and parts (except electrical).....	173	100.0	39.0	7.1	2.4	5.5	43.7	.6	1.7	c
35999	Machinery and parts, n.e.c. (except electrical).....	171	100.0	39.2	7.1	2.4	5.5	43.7	.4	1.7	c
36	Electrical machinery and equipment...	196	100.0	19.0	11.4	6.2	9.4	30.0	11.2	12.8	b
363	Household appliances.....	79	100.0	20.6	12.3	4.8	8.1	17.9	19.7	16.6	d
364	Electric lighting and wiring equipment.....	53	100.0	17.1	8.8	4.9	9.4	39.4	5.4	15.0	d
3643	Current carrying wiring devices (including lightning rods).....	40	100.0	15.8	8.3	1.6	9.7	44.9	5.3	14.4	d
37	Transportation equipment.....	87	100.0	15.3	5.2	4.3	5.1	32.6	12.2	25.3	d
38	Instruments, photographic goods, optical goods, watches, and clocks..	33	100.0	13.8	8.5	3.8	6.5	56.4	3.6	7.4	d
382	Measuring, controlling, and indicating instruments.....	4	100.0	32.6	7.2	6.5	9.1	26.0	9.3	9.3	c
38219	Mechanical measuring and controlling instruments, n.e.c.....	3	100.0	38.6	7.5	7.2	9.1	18.9	11.4	7.3	d
39	Miscellaneous products of manufacturing.....	63	100.0	24.8	11.7	.4	9.3	22.7	21.8	9.3	d

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by production area ¹ of destination								
			Total	1	2 ²	3	4	5	6	7	8
	Total.....	4,187	100.0	8.1	8.0	9.5	9.2	2.5	1.7	0.4	1.0
26	Pulp, paper, and allied products.....	155	100.0	12.7	3.8	15.7	13.6	2.2	1.0	-	2.9
28	Chemicals and allied products.....	1,114	100.0	7.0	9.2	4.7	10.2	2.8	.4	.1	.6
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	562	100.0	6.5	1.2	6.0	18.0	3.9	.6	-	1.0
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	148	100.0	3.2	2.2	4.0	5.6	2.5	.7	-	.2
2844	Perfumes, cosmetics, and other toilet preparations.....	145	100.0	3.3	.4	4.1	5.7	2.6	.7	-	.2
30	Rubber and miscellaneous plastics products.....	322	100.0	6.6	7.1	5.1	5.8	.9	3.9	.6	2.9
307	Miscellaneous plastic products.....	65	100.0	11.4	5.3	6.5	6.8	1.0	4.0	.6	5.3
33	Primary metal products.....	684	100.0	10.8	11.3	6.5	2.2	4.2	4.3	.9	.5
335	Nonferrous metal basic shapes.....	522	100.0	11.4	11.0	8.1	2.2	4.4	2.4	1.1	.5
3351	Copper, brass, bronze, and other copper base alloy basic shapes.....	262	100.0	14.3	13.9	12.0	2.5	7.3	4.0	2.0	.9
33512	Copper, brass, bronze, and other copper base alloy plate, sheet, and strip.....	126	100.0	13.8	19.9	10.5	2.7	3.2	.2	4.1	1.4
3357	Nonferrous wire (including insulated wire).....	217	100.0	8.6	2.8	3.4	1.5	.5	.8	.3	.1
336	Nonferrous and nonferrous base alloy castings.....	41	100.0	1.7	13.4	3.2	4.5	6.6	1.0	-	-
339	Miscellaneous primary metal products..	9	100.0	15.0	19.2	.3	4.3	1.8	.7	.1	-
34	Fabricated metal products.....	250	100.0	8.8	12.5	10.9	6.9	2.4	.4	.1	.7
342	Cutlery, hand tools, and general hardware.....	117	100.0	10.1	7.9	6.6	8.8	4.1	.7	.3	.3
3423	Hand and edge tools (except machine tools and hand saws).....	53	100.0	14.7	4.6	5.2	12.1	4.8	.4	.5	.3
3429	Miscellaneous hardware.....	42	100.0	1.4	4.9	8.0	8.4	4.7	1.3	.2	.4
35	Machinery, except electrical.....	272	100.0	4.2	5.0	22.6	8.3	1.8	.2	.3	.2
354	Metalworking machinery and equipment..	15	100.0	3.8	5.7	4.9	1.1	.5	-	.2	.5
355	Special industry machinery (except metalworking machinery).....	39	100.0	5.1	2.7	7.9	34.2	2.5	.1	.1	-
356	General industrial machinery and equipment.....	19	100.0	3.9	10.6	3.0	1.1	1.1	-	.1	.2
35621	Ball and roller bearings, complete....	16	100.0	3.8	1.5	2.7	1.0	1.3	-	.1	.1
359	Miscellaneous machinery and parts (except electrical).....	173	100.0	4.1	5.3	28.4	4.8	1.9	.2	.3	.2
35999	Machinery and parts, n.e.c. (except electrical).....	171	100.0	4.2	5.2	28.5	4.8	1.8	.2	.4	.2
36	Electrical machinery and equipment....	196	100.0	3.9	4.2	8.8	3.7	2.0	3.2	.2	.5
363	Household appliances.....	79	100.0	5.3	1.9	11.0	3.9	2.1	.9	-	.6
364	Electric lighting and wiring equipment.....	53	100.0	3.9	4.8	7.9	1.5	1.3	4.4	.4	.3
3643	Current carrying wiring devices (including lightning rods).....	40	100.0	3.6	3.7	8.5	1.3	1.4	1.3	.3	.5
37	Transportation equipment.....	87	100.0	4.1	3.2	6.6	2.0	1.7	.7	-	2.4
38	Instruments, photographic goods, optical goods, watches, and clocks...	33	100.0	5.4	2.0	4.0	5.4	1.9	.6	.1	.4
382	Measuring, controlling, and indicating instruments.....	4	100.0	3.6	5.4	21.5	2.4	2.6	1.3	.2	.7
38219	Mechanical measuring and controlling instruments, n.e.c.....	3	100.0	3.6	5.5	28.7	2.3	3.4	1.6	.3	.9
39	Miscellaneous products of manufacturing.....	63	100.0	4.7	9.7	7.0	7.5	.5	-	.1	-

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15	16	17	18
	Total.....	3.4	2.1	1.8	0.7	1.8	1.3	4.3	0.4	0.4	1.7
26	Pulp, paper, and allied products.....	1.0	5.0	.7	1.4	.9	.2	2.0	.8	.5	.3
28	Chemicals and allied products.....	9.2	3.3	.6	.6	.8	1.3	6.0	.1	-	.8
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	2.5	.1	1.0	.8	-	2.1	9.3	.1	-	1.5
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	.7	1.7	.3	.6	2.2	.5	10.0	.3	.2	.1
2844	Perfumes, cosmetics, and other toilet preparations.....	.7	1.8	.2	.7	2.2	.6	10.1	.3	.3	.1
30	Rubber and miscellaneous plastics products.....	1.6	.4	2.5	1.4	4.2	1.2	2.5	.1	1.8	10.9
307	Miscellaneous plastic products.....	2.5	1.5	.9	2.0	1.7	1.3	10.6	.1	.6	.9
33	Primary metal products.....	2.6	3.3	4.2	.2	.5	1.7	5.0	.3	.2	.2
335	Nonferrous metal basic shapes.....	2.8	4.1	5.3	.3	.4	2.2	6.5	.3	.1	.2
3351	Copper, brass, bronze, and other copper base alloy basic shapes.....	1.4	4.3	1.1	.2	.5	4.2	7.9	.2	.2	.3
33512	Copper, brass, bronze, and other copper base alloy plate, sheet, and strip.....	2.5	8.2	.5	.4	.5	5.6	9.4	.3	.3	.6
3357	Nonferrous wire (including insulated wire).....	5.1	3.0	11.0	.4	.2	.2	6.1	.6	-	.1
336	Nonferrous and nonferrous base alloy castings.....	.4	.6	.5	-	-	.6	.1	-	.2	-
339	Miscellaneous primary metal products..	2.0	.9	5.8	.3	16.5	.1	1.0	-	5.8	-
34	Fabricated metal products.....	.4	1.7	3.2	.7	1.6	5.8	2.6	1.3	2.3	.9
342	Cutlery, hand tools, and general hardware.....	.6	2.6	6.1	.6	2.7	.4	4.9	.3	4.8	1.1
3423	Hand and edge tools (except machine tools and hand saws).....	.3	4.3	11.9	1.0	1.1	.4	5.2	.1	3.5	.3
3429	Miscellaneous hardware.....	1.1	1.3	1.1	.1	3.0	.1	5.0	.6	8.8	.4
35	Machinery, except electrical.....	.7	.7	3.9	.8	12.0	2.0	6.9	.7	.3	.1
354	Metalworking machinery and equipment..	2.6	1.4	12.2	.5	.4	1.0	13.1	.5	.1	.1
355	Special industry machinery (except metalworking machinery).....	2.0	1.5	.1	.8	.2	.8	3.3	.3	.3	.3
356	General industrial machinery and equipment.....	.9	2.2	2.3	8.0	3.0	1.0	2.9	.9	.9	.1
35621	Ball and roller bearings, complete....	.3	2.7	2.5	9.8	3.3	1.1	3.5	1.1	1.1	.1
359	Miscellaneous machinery and parts (except electrical).....	.2	.3	4.7	.1	18.3	2.6	7.8	.2	.2	-
35999	Machinery and parts, n.e.c. (except electrical).....	.2	.3	4.7	.1	18.4	2.6	7.8	.2	.1	-
36	Electrical machinery and equipment....	1.6	.7	4.6	1.2	.6	.8	8.8	1.5	1.1	.2
363	Household appliances.....	2.1	.1	2.4	.7	.3	.8	5.0	-	2.3	.3
364	Electric lighting and wiring equipment.....	2.6	1.0	5.4	1.1	.5	.7	2.1	-	.2	-
3643	Current carrying wiring devices (including lightning rods).....	2.9	.4	6.7	.6	.3	.3	2.3	-	.2	.1
37	Transportation equipment.....	.4	.6	.5	.6	1.5	.1	.4	.1	.6	.2
38	Instruments, photographic goods, optical goods, watches, and clocks...	.2	.7	3.4	.4	1.2	.3	3.4	.2	.4	42.8
382	Measuring, controlling, and indicating instruments.....	.4	1.1	3.7	.7	.5	.5	5.5	.6	.1	.1
38219	Mechanical measuring and controlling instruments, n.e.c.....	.6	.8	4.9	.8	.7	.7	3.9	.6	.1	-
39	Miscellaneous products of manufacturing.....	5.0	.2	.3	.1	.8	.5	9.9	5.7	.1	-

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									Sampling variability code ³
		19	20	21	22	23	24	25	30	50	
	Total.....	1.0	0.9	1.0	0.3	0.2	0.8	2.6	15.5	19.4	
26	Pulp, paper, and allied products.....	.3	1.7	-	2.5	-	.2	.8	8.6	21.2	b
28	Chemicals and allied products.....	.8	2.2	1.7	-	-	.8	4.1	14.3	18.4	d
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	.3	4.1	1.0	-	-	.2	1.3	13.6	24.9	c
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	2.6	1.2	8.0	-	.1	5.2	25.6	16.1	6.2	d
2844	Perfumes, cosmetics, and other toilet preparations.....	2.7	1.3	8.1	-	.1	5.3	26.0	16.3	6.2	d
30	Rubber and miscellaneous plastic products.....	3.7	.8	-	1.0	.4	1.2	2.3	15.7	15.4	b
307	Miscellaneous plastic products.....	-	.5	-	.2	2.1	2.2	1.2	18.4	12.4	d
33	Primary metal products.....	.7	.5	2.4	-	-	.6	2.8	12.8	21.3	b
335	Nonferrous metal basic shapes.....	1.0	.6	3.2	.1	-	.7	3.5	7.2	20.4	b
3351	Copper, brass, bronze, and other copper base alloy basic shapes.....	1.3	-	.5	.1	-	1.3	-	5.0	14.6	c
33512	Copper, brass, bronze, and other copper base alloy plate, sheet, and strip.....	-	-	-	-	-	1.7	-	2.0	12.2	d
3357	Nonferrous wire (including insulated wire).....	.7	1.5	7.1	-	.1	.1	8.5	10.7	26.6	d
336	Nonferrous and nonferrous base alloy castings.....	-	-	-	-	-	-	.8	53.2	13.2	e
339	Miscellaneous primary metal products..	-	.1	-	-	-	-	1.2	4.4	20.5	b
34	Fabricated metal products.....	.7	.9	.3	2.1	1.1	1.0	2.3	14.3	14.1	b
342	Cutlery, hand tools, and general hardware.....	.5	1.6	.6	.3	2.2	1.1	1.5	20.5	8.8	b
3423	Hand and edge tools (except machine tools and hand saws).....	.9	.7	.8	.3	3.6	.9	.8	14.3	7.0	b
3429	Miscellaneous hardware.....	.2	-	-	.4	.6	1.5	2.1	32.6	11.8	c
35	Machinery, except electrical.....	1.4	.2	.1	.2	-	1.0	1.0	13.5	11.9	b
354	Metalworking machinery and equipment..	-	.1	-	.3	-	.5	.5	10.3	39.7	d
355	Special industry machinery (except metalworking machinery).....	.1	.4	.2	-	-	1.1	2.8	12.9	20.3	d
356	General industrial machinery and equipment.....	18.5	.1	.1	3.2	.3	.6	1.0	13.2	20.8	b
35621	Ball and roller bearings, complete....	23.0	.1	.1	3.9	.2	.7	1.3	14.3	20.4	b
359	Miscellaneous machinery and parts (except electrical).....	-	.1	-	-	-	.9	.5	12.0	6.9	c
35999	Machinery and parts, n.e.c. (except electrical).....	-	-	-	-	-	1.0	.5	11.9	6.9	c
36	Electrical machinery and equipment....	1.3	.5	1.6	.7	1.1	1.9	5.9	25.8	13.6	b
363	Household appliances.....	2.4	.9	3.4	.1	.9	2.8	6.6	34.8	8.4	d
364	Electric lighting and wiring equipment.....	.6	-	.6	-	2.6	1.7	10.1	31.0	15.3	d
3643	Current carrying wiring devices (including lightning rods).....	.8	-	.6	-	3.3	1.8	8.9	36.8	13.4	d
37	Transportation equipment.....	4.8	1.7	.4	-	.7	7.6	3.7	41.6	13.8	d
38	Instruments, photographic goods, optical goods, watches, and clocks...	.2	.2	.5	-	.4	1.4	3.7	9.6	11.2	d
382	Measuring, controlling, and indicating instruments.....	.4	.4	3.0	.1	2.2	1.9	4.0	13.3	23.8	c
38219	Mechanical measuring and controlling instruments, n.e.c.....	.5	.5	3.6	-	.2	2.2	3.8	10.9	18.9	d
39	Miscellaneous products of manufacturing.....	1.8	.2	.1	-	.5	.4	3.5	16.5	24.9	d

¹See description of production areas on page 313.²Includes only those shipments that originated in one city in this area and terminated in another city in this area.³Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 5. Ton-Miles of Shipments—Production Area Destination and Commodity: 1963

TCC code	Commodity	Ton-miles (millions)	Percent distribution by production area ¹ of destination								
			Total	1	2 ²	3	4	5	6	7	8
	Total.....	1,972	100.0	1.6	0.5	1.6	1.8	0.9	0.9	0.1	0.4
26	Pulp, paper, and allied products.....	52	100.0	2.8	.3	5.3	4.5	1.1	.8	-	1.8
28	Chemicals and allied products.....	594	100.0	1.1	.6	.9	2.2	1.0	.2	-	.3
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	272	100.0	1.0	.1	1.3	4.5	1.7	.3	-	.5
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	195	100.0	.3	-	.2	.3	.3	.1	-	-
2844	Perfumes, cosmetics, and other toilet preparations.....	194	100.0	.3	-	.2	.3	.3	.1	-	-
30	Rubber and miscellaneous plastics products.....	190	100.0	1.2	.5	.7	1.0	.2	1.9	.2	1.1
307	Miscellaneous plastic products.....	39	100.0	1.6	.4	1.2	1.1	.3	2.0	.2	2.0
33	Primary metal products.....	276	100.0	2.3	.7	1.1	.5	1.6	2.7	.3	.3
335	Nonferrous metal basic shapes.....	228	100.0	2.3	.6	1.3	.4	1.5	1.3	.4	.3
3351	Copper, brass, bronze, and other copper base alloy basic shapes.....	83	100.0	4.5	1.0	2.6	.6	3.4	3.0	.9	.7
33512	Copper, brass, bronze, and other copper base alloy plate, sheet, and strip.....	37	100.0	4.5	1.5	2.7	.8	1.5	.2	1.9	1.1
3357	Nonferrous wire (including insulated wire).....	137	100.0	.9	.2	.4	.2	.1	.3	.1	-
336	Nonferrous and nonferrous base alloy castings.....	20	100.0	.3	1.2	.3	.7	2.5	.5	-	-
339	Miscellaneous primary metal products..	3	100.0	2.9	1.6	.1	1.3	.9	.5	-	-
34	Fabricated metal products.....	127	100.0	1.6	.9	2.0	1.3	.8	.2	-	.3
342	Cutlery, hand tools, and general hardware.....	66	100.0	1.5	.5	.8	1.3	1.3	.3	.1	.1
3423	Hand and edge tools (except machine tools and hand saws).....	28	100.0	2.3	.3	.8	2.1	1.7	.2	.2	.1
3429	Miscellaneous hardware.....	26	100.0	.2	.2	.6	.9	1.1	.5	-	.1
35	Machinery, except electrical.....	125	100.0	.9	.6	4.0	2.2	.6	.1	.1	.1
354	Metalworking machinery and equipment..	8	100.0	.6	.3	.7	.2	.1	-	-	.2
355	Special industry machinery (except metalworking machinery).....	17	100.0	.8	.2	1.7	10.6	1.1	.1	-	-
356	General industrial machinery and equipment.....	12	100.0	.6	.8	.4	.2	.3	-	-	.1
35621	Ball and roller bearings, complete....	11	100.0	.5	.1	.3	.1	.3	-	-	-
359	Miscellaneous machinery and parts (except electrical).....	71	100.0	1.1	.9	5.5	1.1	.7	.1	.1	.1
35999	Machinery and parts, n.e.c. (except electrical).....	70	100.0	1.2	.9	5.6	1.1	.7	.1	.1	.1
36	Electrical machinery and equipment....	144	100.0	.6	.2	.6	.3	.4	.9	-	.1
363	Household appliances.....	66	100.0	.7	.1	.7	.3	.4	.2	-	.1
364	Electric lighting and wiring equipment.....	41	100.0	.5	.2	.7	.2	.3	1.3	.1	.1
3643	Current carrying wiring devices (including lightning rods).....	32	100.0	.4	.2	.8	.1	.3	.5	.1	.1
37	Transportation equipment.....	89	100.0	.3	.1	.5	.2	.3	.2	-	.5
38	Instruments, photographic goods, optical goods, watches, and clocks...	26	100.0	1.0	.2	.4	.6	.4	.2	-	.1
382	Measuring, controlling, and indicating instruments.....	2	100.0	.6	.5	2.8	.4	.6	.6	-	.2
38219	Mechanical measuring and controlling instruments, n.e.c.....	2	100.0	.6	.6	4.1	.4	1.0	.8	.1	.3
39	Miscellaneous products of manufacturing.....	43	100.0	.6	.2	.8	1.2	.1	-	-	-

See footnotes at end of table.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15	16	17	18
	Total.....	1.3	1.4	1.7	0.6	2.0	1.7	7.0	0.7	1.0	3.4
26	Pulp, paper, and allied products.....	.5	4.3	.9	1.7	1.5	.3	4.6	1.8	1.5	.9
28	Chemicals and allied products.....	3.2	2.0	.5	.4	.8	1.6	8.7	.2	.1	1.4
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	.6	.1	.9	.7	-	2.9	14.7	.2	-	2.9
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	.1	.4	.1	.2	.8	.2	5.8	.1	.2	-
2844	Perfumes, cosmetics, and other toilet preparations.....	.1	.4	.1	.2	.8	.2	5.8	.1	.2	-
30	Rubber and miscellaneous plastics products.....	.4	.2	1.8	.9	3.6	1.2	3.3	.1	3.1	17.2
307	Miscellaneous plastic products.....	.7	.7	.7	1.3	1.5	1.3	13.7	.2	1.0	1.4
33	Primary metal products.....	1.1	2.4	4.6	.2	.7	2.6	9.3	.5	.5	.4
335	Nonferrous metal basic shapes.....	1.2	2.7	5.3	.3	.5	3.0	11.2	.6	.3	.5
3351	Copper, brass, bronze, and other copper base alloy basic shapes.....	.9	4.0	1.5	.2	.7	8.1	18.6	.5	.6	.9
33512	Copper, brass, bronze, and other copper base alloy plate, sheet, and strip.....	1.7	8.2	.7	.5	.9	11.6	24.2	.7	1.0	2.0
3357	Nonferrous wire (including insulated wire).....	1.4	1.3	7.8	.2	.1	.1	7.2	.7	.1	.2
336	Nonferrous and nonferrous base alloy castings.....	.2	.3	.5	-	-	.7	.1	-	.3	-
339	Miscellaneous primary metal products..	.9	.8	8.4	.3	28.0	.2	2.5	.1	18.8	-
34	Fabricated metal products.....	.1	1.0	2.9	.5	1.6	7.1	3.9	2.0	4.7	1.6
342	Cutlery, hand tools, and general hardware.....	.2	1.5	4.9	.4	2.6	.4	6.6	.4	9.0	1.9
3423	Hand and edge tools (except machine tools and hand saws).....	.1	2.6	10.4	.7	1.1	.5	7.6	.1	7.0	.5
3429	Miscellaneous hardware.....	.3	.7	.7	.1	2.6	.1	5.9	.8	14.8	.5
35	Machinery, except electrical.....	.2	.5	3.8	.7	13.9	2.7	11.4	1.2	.7	.2
354	Metalworking machinery and equipment..	.6	.8	9.3	.3	.3	1.1	17.8	.7	.3	.1
355	Special industry machinery (except metalworking machinery).....	.5	1.0	.1	.7	.2	1.2	5.9	.6	.8	.7
356	General industrial machinery and equipment.....	.2	1.2	1.7	5.1	2.7	1.1	3.7	1.1	1.6	.2
35621	Ball and roller bearings, complete....	.1	1.2	1.6	5.4	2.6	1.0	3.8	1.2	1.7	.2
359	Miscellaneous machinery and parts (except electrical).....	.1	.2	5.1	.1	23.5	3.9	14.3	.4	.4	.1
35999	Machinery and parts, n.e.c. (except electrical).....	.1	.2	5.2	.1	23.9	3.9	14.3	.4	.2	-
36	Electrical machinery and equipment....	.3	.3	2.7	.6	.4	.7	9.3	1.6	1.6	.2
363	Household appliances.....	.3	-	1.2	.3	.2	.6	4.5	-	2.8	.4
364	Electric lighting and wiring equipment.....	.6	.4	3.1	.5	.3	.6	2.0	-	.2	-
3643	Current carrying wiring devices (including lightning rods).....	.7	.1	3.8	.3	.2	.2	2.1	-	.2	.1
37	Transportation equipment.....	-	.2	.2	.2	.8	.1	.3	.1	.6	.2
38	Instruments, photographic goods, optical goods, watches, and clocks...	-	.3	1.8	.2	.8	.3	3.3	.2	.6	50.5
382	Measuring, controlling, and indicating instruments.....	.1	.6	2.7	.4	.4	.5	6.7	.7	.2	.1
38219	Mechanical measuring and controlling instruments, n.e.c.....	.1	.4	3.9	.6	.6	.8	5.3	.8	.3	-
39	Miscellaneous products of manufacturing.....	.6	.1	.2	.1	.7	.5	11.2	6.5	.2	-

See footnotes at end of table.

TABLE 5. Ton-Miles of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued								
		19	20	21	22	23	24	25	30	50
	Total.....	1.8	2.9	3.0	1.2	1.0	4.4	13.9	26.2	17.0
26	Pulp, paper, and allied products.....	.7	7.6	.2	12.4	.3	1.2	5.9	21.3	15.8
28	Chemicals and allied products.....	1.1	6.1	4.6	-	.1	3.9	19.1	27.2	12.7
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	.5	12.4	3.1	-	-	.8	6.6	22.5	21.7
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	1.6	1.3	9.1	.1	.2	10.4	48.1	17.2	2.9
2844	Perfumes, cosmetics, and other toilet preparations.....	1.6	1.3	9.1	.1	.2	10.4	48.1	17.2	2.9
30	Rubber and miscellaneous plastics products.....	5.5	1.9	-	2.7	1.8	5.4	9.6	23.1	11.4
307	Miscellaneous plastic products.....	-	1.3	.1	.6	8.6	9.6	5.1	27.7	15.7
33	Primary metal products.....	1.5	1.7	8.8	.2	.2	3.6	16.8	20.4	15.0
335	Nonferrous metal basic shapes.....	1.8	2.0	10.7	.2	.2	4.4	20.1	11.3	15.6
3351	Copper, brass, bronze, and other copper base alloy basic shapes.....	3.5	-	2.2	.6	-	11.1	.1	13.4	16.4
33512	Copper, brass, bronze, and other copper base alloy plate, sheet, and strip.....	-	-	-	-	-	15.1	-	3.9	15.3
3357	Nonferrous wire (including insulated wire).....	.9	3.4	16.5	-	.3	.6	33.3	10.6	13.1
336	Nonferrous and nonferrous base alloy castings.....	-	-	-	-	-	-	4.0	81.9	6.5
339	Miscellaneous primary metal products..	-	.6	.2	-	-	-	9.5	7.8	14.6
34	Fabricated metal products.....	1.1	2.6	1.0	6.8	5.1	5.1	11.1	22.3	12.4
342	Cutlery, hand tools, and general hardware.....	.7	4.0	1.5	1.0	9.4	4.9	6.6	28.2	9.9
3423	Hand and edge tools (except machine tools and hand saws).....	1.4	1.9	2.4	.9	16.7	4.3	3.8	23.9	6.4
3429	Miscellaneous hardware.....	.2	-	.1	1.1	2.5	6.2	8.5	36.9	14.4
35	Machinery, except electrical.....	2.5	.6	.2	.9	.1	5.5	5.7	24.3	16.3
354	Metalworking machinery and equipment..	-	.3	-	.7	-	2.1	2.1	13.6	47.8
355	Special industry machinery (except metalworking machinery).....	.2	1.3	.5	-	-	6.4	16.1	16.1	33.2
356	General industrial machinery and equipment.....	25.9	.3	.2	8.9	1.2	2.4	4.3	19.9	15.9
35621	Ball and roller bearings, complete....	27.7	.3	.2	9.4	.8	2.5	4.6	19.1	15.3
359	Miscellaneous machinery and parts (except electrical).....	-	.2	.1	-	-	6.0	3.2	22.9	9.9
35999	Machinery and parts, n.e.c. (except electrical).....	-	.2	-	-	-	6.0	3.2	22.5	10.0
36	Electrical machinery and equipment....	1.3	1.0	3.1	1.5	3.6	6.7	20.0	30.8	11.2
363	Household appliances.....	2.2	1.6	6.0	.1	2.6	8.6	19.4	40.7	6.0
364	Electric lighting and wiring equipment.....	.6	.1	1.1	-	7.9	5.5	32.0	28.5	13.2
3643	Current carrying wiring devices (including lightning rods).....	.8	.1	1.2	-	10.1	5.8	27.2	32.0	12.6
37	Transportation equipment.....	4.0	2.4	.5	-	1.6	19.2	9.1	47.4	11.0
38	Instruments, photographic goods, optical goods, watches, and clocks...	.2	.4	.9	.1	1.4	4.7	11.8	10.9	8.7
382	Measuring, controlling, and indicating instruments.....	.5	.9	7.1	.3	8.6	7.8	15.9	18.3	22.5
38219	Mechanical measuring and controlling instruments, n.e.c.....	.8	1.3	9.4	.1	.7	10.1	16.8	18.4	21.7
39	Miscellaneous products of manufacturing.....	2.3	.5	.3	-	1.8	1.6	13.1	26.3	31.1

¹See description of production areas on page 313.²Includes only those shipments that originated in one city in this area and terminated in another city in this area.

Production Area 3

Production Area 3 consists of one standard metropolitan statistical area, New York, N.Y.

Data are based on 407 plants from which 45,198 shipping documents were sampled. The sampling variability on the estimated 9.8 million tons shipped from Production Area 3 is ± 8.6 percent.

Major commodity groups shipped from Production Area 3 and their area of destinations are summarized in table A below.

Table A.—DISTRIBUTION OF TONS OF COMMODITIES SHIPPED FROM PRODUCTION AREA 3, BY AREA OF DESTINATION

TCC code	Commodity class	Total tons (thous.)	Percent distribution by destination area					Balance of country
			Production Area 3 ¹	Production Area 2	Production Area 4	Other production areas	Other SMSA's	
	Total.....	29,767	29.6	4.0	10.8	29.8	10.1	15.7
20	Food and kindred products.....	4,414	33.6	4.5	9.5	27.6	9.5	15.3
23	Apparel, including knit apparel, and other finished products.....	360	4.1	2.7	4.5	54.1	18.9	15.7
25	Furniture and fixtures.....	122	15.7	2.1	2.7	41.0	21.5	17.0
26	Pulp, paper, and allied products...	1,187	39.9	2.5	11.1	26.1	7.5	12.9
28	Chemicals and allied products.....	660	21.7	3.1	17.8	31.4	9.2	16.8
30	Rubber and miscellaneous plastics products.....	139	10.8	3.0	9.2	44.7	19.2	13.1
31	Leather and leather products.....	133	13.0	1.2	8.7	46.5	19.3	11.3
33	Primary metal products.....	568	5.6	7.7	17.9	31.5	13.7	23.6
34	Fabricated metal products.....	442	19.2	4.8	8.5	35.0	11.4	21.1
35	Machinery, except electrical.....	66	11.5	.5	10.7	34.5	22.9	19.9
36	Electrical machinery and equipment.	174	9.8	2.4	6.0	40.1	22.5	19.2
38	Instruments, photographic goods, optical goods, watches, and clocks	41	7.8	.6	4.0	55.0	19.4	13.2
39	Miscellaneous products of manufacturing.....	127	14.1	4.0	2.2	56.2	12.2	11.3

NOTE: Production Areas 2, 3, and 4 collectively make up the greater New York City area.

¹Includes only those shipments that originated in one city in this area and terminated in another city in this area.

²Includes commodity classes not shown separately.

TABLE 1. Tons of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by means of transport								Sampling variability code ¹
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown	
	Total.....	9,767	100.0	9.1	49.2	37.3	0.2	1.2	2.9	0.1	
20	Food and kindred products.....	4,414	100.0	10.1	31.4	56.3	.1	2.1	-	-	b
207	Confectionery and related products.....	127	100.0	22.2	70.1	.5	3.2	2.7	1.3	-	c
208	Beverages and flavoring extracts...	3,012	100.0	7.1	22.8	67.2	-	2.9	-	-	b
2082	Malt liquors.....	1,039	100.0	-	31.2	68.8	-	-	-	-	a
23	Apparel, including knit apparel, and other finished textile products.....	360	100.0	4.5	61.5	3.3	2.7	.2	27.6	.2	b
231	Men's, youths', and boys' clothing..	56	100.0	4.7	58.9	15.4	.1	.8	20.1	-	d
233	Women's, misses', girls', and infants' clothing.....	200	100.0	5.3	53.8	.2	1.5	.1	38.8	.3	d
25	Furniture and fixtures.....	122	100.0	5.9	83.7	7.0	.5	.1	2.2	.6	d
251	Household and office furniture.....	71	100.0	8.8	80.8	5.1	.9	.2	3.2	1.0	d
254	Partitions, shelving, lockers, and office and store fixtures.....	19	100.0	4.7	94.1	-	-	-	1.2	-	d
26	Pulp, paper, and allied products....	1,187	100.0	7.1	46.6	45.8	-	-	.5	-	e
264	Converted paper and paperboard products (except containers and boxes).....	574	100.0	14.2	68.6	16.2	-	.1	.9	-	e
28	Chemicals and allied products.....	660	100.0	3.9	74.6	13.3	.1	.3	7.8	-	b
283	Drugs and medicines (including biological products, medicinal chemicals, botanical products, and pharmaceutical preparations)..	107	100.0	6.2	59.5	.1	.1	1.8	32.3	-	d
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	328	100.0	5.6	87.9	1.7	.1	.1	4.6	-	b
2841	Soap and other detergents (except specialty cleansers).....	247	100.0	6.8	91.5	1.5	-	-	.2	-	b
2844	Perfumes, cosmetics, and other toilet preparations.....	74	100.0	2.2	75.1	2.9	.6	.2	19.0	-	c
30	Rubber and miscellaneous plastics products.....	139	100.0	3.1	81.1	10.6	-	1.7	3.5	-	e
306	Miscellaneous fabricated rubber products.....	25	100.0	.5	51.8	24.1	-	9.4	14.2	-	e
307	Miscellaneous plastic products.....	113	100.0	3.7	87.7	7.5	-	-	1.1	-	e
31	Leather and leather products.....	133	100.0	23.6	46.7	11.2	.8	.4	17.1	.2	d
316	Luggage and handbags, all materials, and other personal leather goods.....	117	100.0	26.2	46.3	12.6	.9	.5	13.3	.2	d
33	Primary metal products.....	568	100.0	15.6	47.3	34.7	-	2.0	.2	.2	c
335	Nonferrous metal basic shapes.....	249	100.0	17.4	62.7	14.7	.1	4.5	.3	.3	c
3357	Nonferrous wire (including insulated wire).....	149	100.0	12.5	66.3	12.5	.1	7.5	.5	.6	d
33574	Wire and cable, insulated, enameled or covered.....	137	100.0	12.9	64.5	13.5	.1	8.1	.3	.6	d
336	Nonferrous and nonferrous base alloy castings.....	26	100.0	4.1	47.8	47.1	.2	-	.7	.1	d
34	Fabricated metal products.....	442	100.0	4.4	50.2	36.8	.6	-	8.0	-	c
344	Structural and miscellaneous metal products.....	237	100.0	7.7	37.2	46.6	-	-	8.5	-	d
3442	Metal doors, sash, frames, molding, and trim.....	120	100.0	11.5	38.1	34.1	-	-	16.3	-	e
349	Miscellaneous fabricated metal products.....	31	100.0	1.5	48.6	35.6	8.0	-	6.3	-	d

See footnote at end of table.

TABLE 1. Tons of Shipments—Means of Transport and Commodity: 1963—Continued

TCC code	Commodity	Tons (thous.)	Percent distribution by means of transport								Sampling variability code ¹
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown	
35	Machinery, except electrical.....	66	100.0	3.5	67.3	20.1	0.3	0.6	8.2	-	c
356	General industrial machinery and equipment.....	4	100.0	12.3	59.6	2.8	3.3	-	21.9	0.1	e
3566	Mechanical power transmission equipment, except ball and roller bearings.....	1	100.0	-	50.8	7.5	10.1	-	31.3	.3	e
359	Miscellaneous machinery and parts (except electrical).....	12	100.0	.6	80.7	6.3	.6	2.5	9.3	-	d
36	Electrical machinery and equipment.	174	100.0	4.7	79.3	5.0	1.1	.4	8.1	1.4	c
361	Electrical transmission and distribution equipment.....	6	100.0	.1	73.4	4.9	4.3	-	17.3	-	d
3611	Electrical measuring instruments and test equipment.....	3	100.0	.2	68.9	6.9	5.6	-	18.4	-	e
364	Electric lighting and wiring equipment.....	75	100.0	6.0	74.1	7.4	.3	-	9.4	2.8	d
3642	Lighting fixtures.....	53	100.0	8.5	74.2	.3	.3	-	12.7	4.0	d
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records.....	29	100.0	11.8	77.1	2.7	.5	1.8	5.9	.2	d
366	Communication equipment.....	21	100.0	.3	84.5	2.2	3.8	.9	8.1	.2	d
367	Electronic components or accessories.....	6	100.0	.4	69.9	8.2	6.8	-	14.4	.3	d
3679	Miscellaneous electronic components and accessories.....	4	100.0	.1	76.3	3.9	2.5	-	16.7	.5	e
38	Instruments, photographic goods, optical goods, watches, and clocks	41	100.0	11.3	60.4	5.0	1.5	.2	21.3	.3	c
384	Surgical, medical, and dental instruments and supplies.....	5	100.0	1.3	70.2	.4	-	-	27.8	.3	c
385	Ophthalmic and opticians goods.....	14	100.0	.4	89.6	4.0	.3	-	5.7	-	e
386	Photographic equipment and supplies	4	100.0	7.3	46.8	31.0	4.1	-	10.6	.2	e
387	Watches, clocks, and parts, and clockwork operated devices and parts.....	3	100.0	26.5	19.8	2.7	4.8	2.3	43.9	-	e
39	Miscellaneous products of manufacturing.....	127	100.0	17.7	56.8	9.3	.3	-	15.6	.3	d
399	Miscellaneous manufactured products	12	100.0	24.5	65.2	1.5	.2	-	8.5	.1	e

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 2. Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Ton-miles (millions)	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
	Total.....	2,630	100.0	25.7	49.2	7.8	0.9	7.3	8.9	0.2
20	Food and kindred products.....	919	100.0	37.9	31.4	13.1	.6	16.9	.1	-
207	Confectionery and related products.....	88	100.0	51.0	37.6	.1	6.4	3.8	1.1	-
208	Beverages and flavoring extracts.....	596	100.0	38.1	24.0	12.5	-	25.3	.1	-
2082	Malt liquors.....	93	100.0	-	44.2	55.8	-	-	-	-
23	Apparel, including knit apparel, and other finished textile products.....	242	100.0	9.7	56.8	1.2	3.4	.4	28.3	.2
231	Men's, youths', and boys' clothing.....	36	100.0	14.8	53.5	7.9	.1	1.0	22.6	.1
233	Women's, misses', girls', and infants' clothing.....	139	100.0	10.1	49.6	.1	2.4	.4	37.1	.3
25	Furniture and fixtures.....	65	100.0	9.0	87.0	.6	1.0	.3	.7	1.4
251	Household and office furniture.....	44	100.0	11.3	83.8	.3	1.5	.4	.6	2.1
254	Partitions, shelving, lockers, and office and store fixtures.....	7	100.0	13.5	83.7	-	-	-	2.8	-
26	Pulp, paper, and allied products.....	235	100.0	15.7	69.0	12.1	.1	-	3.1	-
264	Converted paper and paperboard products (except containers and boxes).....	163	100.0	21.9	70.7	2.9	.1	-	4.4	-
28	Chemicals and allied products.....	189	100.0	16.1	59.2	3.4	.3	1.5	19.5	-
283	Drugs and medicines (including biological products, medicinal chemicals, botanical products, and pharmaceutical preparations).....	74	100.0	22.1	38.7	-	.1	3.5	35.6	-
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	71	100.0	18.5	67.0	.5	.7	.4	12.9	-
2841	Soap and other detergents (except specialty cleansers).....	38	100.0	30.7	68.4	.2	-	.1	.6	-
2844	Perfumes, cosmetics, and other toilet preparations.....	30	100.0	4.6	63.1	.9	1.7	.7	29.0	-
30	Rubber and miscellaneous plastics products.....	64	100.0	14.6	73.8	1.1	-	4.1	6.4	-
306	Miscellaneous fabricated rubber products.....	12	100.0	-	44.3	1.2	-	22.3	32.2	-
307	Miscellaneous plastic products.....	52	100.0	17.8	80.5	1.0	.1	-	.6	-
31	Leather and leather products.....	97	100.0	47.3	24.1	.3	1.4	1.1	25.7	.1
316	Luggage and handbags, all materials, and other personal leather goods.....	82	100.0	53.7	19.6	.3	1.5	1.3	23.5	.1
33	Primary metal products.....	193	100.0	26.8	49.0	11.3	.1	12.6	.2	-
335	Nonferrous metal basic shapes.....	126	100.0	31.6	45.9	2.6	.2	19.4	.3	-
3357	Nonferrous wire (including insulated wire).....	98	100.0	24.2	48.0	2.3	.2	25.0	.3	-
33574	Wire and cable, insulated, enameled or covered.....	93	100.0	25.1	45.9	2.4	.2	26.1	.3	-
336	Nonferrous and nonferrous base alloy castings.....	6	100.0	43.6	50.2	4.2	.3	-	1.7	-
34	Fabricated metal products.....	132	100.0	13.0	50.1	8.0	1.4	-	27.5	-
344	Structural and miscellaneous metal products.....	79	100.0	19.3	45.0	8.2	.2	-	27.3	-
3442	Metal doors, sash, frames, molding, and trim.....	63	100.0	18.0	44.0	3.9	-	-	34.1	-
349	Miscellaneous fabricated metal products..	7	100.0	1.9	55.8	4.2	24.0	.2	13.9	-
35	Machinery, except electrical.....	27	100.0	10.7	71.3	3.5	.7	.2	13.6	-
356	General industrial machinery and equipment.....	2	100.0	43.9	29.5	2.4	7.1	-	17.0	.1
3566	Mechanical power transmission equipment, except ball and roller bearings.....	1	100.0	-	32.5	8.9	26.3	-	31.9	.4

TABLE 2. **Ton-Miles of Shipments—Means of Transport and Commodity: 1963**—Continued

TCC code	Commodity	Ton-miles (millions)	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
359	Miscellaneous machinery and parts (except electrical).....	4	100.0	2.4	81.0	3.0	1.1	1.3	11.2	-
36	Electrical machinery and equipment.....	115	100.0	11.3	76.0	1.3	1.6	.3	7.9	1.6
361	Electrical transmission and distribution equipment.....	3	100.0	.3	55.0	1.7	11.3	-	31.7	-
3611	Electrical measuring instruments and test equipment.....	3	100.0	.3	51.9	2.1	10.9	-	34.8	-
364	Electric lighting and wiring equipment..	45	100.0	9.9	76.5	2.0	.4	-	7.5	3.7
3642	Lighting fixtures.....	36	100.0	12.5	72.7	.7	.4	-	9.0	4.7
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records....	26	100.0	30.9	59.5	.7	1.0	1.2	6.7	-
366	Communication equipment.....	16	100.0	.9	84.9	1.3	2.6	-	9.8	.5
367	Electronic components or accessories....	3	100.0	.8	76.9	.5	14.2	-	7.5	.1
3679	Miscellaneous electronic components and accessories.....	3	100.0	.1	88.1	.1	4.3	-	7.2	.2
38	Instruments, photographic goods, optical goods, watches, and clocks.....	31	100.0	31.8	40.9	.1	2.6	.4	23.8	.4
384	Surgical, medical, and dental instruments and supplies.....	2	100.0	8.8	18.6	-	-	-	72.2	.4
385	Ophthalmic and opticians goods.....	6	100.0	.2	94.0	.1	.7	-	5.0	-
386	Photographic equipment and supplies....	3	100.0	23.0	61.5	.6	6.7	-	8.1	.1
387	Watches, clocks, and parts, and clockwork operated devices and parts.....	2	100.0	32.9	7.9	-	8.6	5.0	45.6	-
39	Miscellaneous products of manufacturing.	100	100.0	39.5	36.3	1.1	.3	-	22.6	.2
399	Miscellaneous manufactured products.....	8	100.0	47.0	45.6	-	.3	-	7.0	.1

TABLE 3. Tons of Shipments—Distance and Commodity:
1963

TCC code	Commodity	Tons (thous.)	Percent distribution by distance of shipment								Sampling vari- ability code ¹
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over	
	Total.....	9,767	100.0	55.9	16.1	5.6	6.7	8.7	3.3	3.7	
20	Food and kindred products.....	4,414	100.0	60.3	17.7	5.6	7.3	4.5	1.4	3.2	b
207	Confectionery and related products..	127	100.0	23.1	17.6	6.8	13.6	15.9	7.4	15.6	c
208	Beverages and flavoring extracts....	3,012	100.0	66.8	17.1	3.9	4.3	2.4	1.5	4.0	b
2082	Malt liquors.....	1,039	100.0	61.0	34.4	4.6	-	-	-	-	a
23	Apparel, including knit apparel, and other finished textile products....	360	100.0	19.7	12.2	7.3	11.4	28.0	9.9	11.5	b
231	Men's, youths', and boys' clothing..	56	100.0	16.7	18.2	6.3	11.3	26.5	8.4	12.6	d
233	Women's, misses', girls', and infants' clothing.....	200	100.0	17.5	8.7	6.2	13.5	33.3	10.0	10.8	d
25	Furniture and fixtures.....	122	100.0	26.9	14.5	12.8	12.3	13.5	12.6	7.4	d
251	Household and office furniture.....	71	100.0	27.6	13.9	6.9	12.5	16.1	11.6	11.4	d
254	Partitions, shelving, lockers, and office and store fixtures.....	19	100.0	37.3	10.5	19.1	9.5	17.7	2.1	3.8	d
26	Pulp, paper, and allied products.....	1,187	100.0	61.5	16.0	3.8	6.1	6.6	5.4	.6	e
264	Converted paper and paperboard products (except containers and boxes).....	574	100.0	40.4	26.6	3.9	10.7	9.2	8.7	.5	e
28	Chemicals and allied products.....	660	100.0	55.4	12.2	6.4	4.3	15.2	3.7	2.8	b
283	Drugs and medicines (including biological products, medicinal chemicals, botanical products, and pharmaceutical preparations).....	107	100.0	33.7	6.6	3.7	5.8	26.4	11.3	12.5	d
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	328	100.0	58.5	12.9	7.4	3.4	14.8	2.1	.9	b
2841	Soap and other detergents (except specialty cleansers).....	247	100.0	67.4	9.4	8.3	2.5	12.0	.2	.2	b
2844	Perfumes, cosmetics, and other toilet preparations.....	74	100.0	29.7	23.3	4.5	6.9	25.4	6.9	3.3	c
30	Rubber and miscellaneous plastics products.....	139	100.0	33.1	16.5	7.6	13.2	14.9	8.4	6.3	e
306	Miscellaneous fabricated rubber products.....	25	100.0	29.5	.9	13.2	27.2	12.9	12.7	3.6	e
307	Miscellaneous plastic products.....	113	100.0	33.7	20.0	6.4	10.1	15.4	7.4	7.0	e
31	Leather and leather products.....	133	100.0	28.6	13.7	6.3	6.2	18.5	9.2	17.5	d
316	Luggage and handbags, all materials, and other personal leather goods.....	117	100.0	31.6	14.1	5.9	4.7	17.8	8.8	17.1	d
33	Primary metal products.....	568	100.0	41.0	19.5	7.2	4.6	22.1	2.1	3.5	c
335	Nonferrous metal basic shapes.....	249	100.0	34.8	14.1	5.1	2.8	31.0	4.7	7.5	c
3357	Nonferrous wire (including insulated wire).....	149	100.0	26.9	13.4	7.9	2.2	29.1	7.9	12.6	d
33574	Wire and cable, insulated, enameled or covered.....	137	100.0	26.6	13.2	6.9	1.8	29.9	8.0	13.6	d
336	Nonferrous and nonferrous base alloy castings.....	26	100.0	62.9	7.3	13.4	9.8	2.0	.4	4.2	d
34	Fabricated metal products.....	442	100.0	49.5	16.0	6.2	8.5	12.1	5.4	2.3	c
344	Structural and miscellaneous metal products.....	237	100.0	47.3	15.7	6.9	6.4	12.1	9.1	2.5	d
3442	Metal doors, sash, frames, molding, and trim.....	120	100.0	30.5	13.8	6.6	6.6	20.8	17.4	4.3	e
349	Miscellaneous fabricated metal products.....	31	100.0	66.4	2.0	1.4	15.3	13.3	.8	.8	d

See footnote at end of table.

TABLE 3. Tons of Shipments—Distance and Commodity:
1963—Continued

TCC code	Commodity	Tons (thous.)	Percent distribution by distance of shipment								Sampling variability code ¹
			All distances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over	
35	Machinery, except electrical.....	66	100.0	43.7	14.0	7.0	6.5	14.8	10.9	3.1	c
356	General industrial machinery and equipment.....	4	100.0	40.9	18.4	5.8	2.3	14.0	5.9	12.7	e
3566	Mechanical power transmission equipment, except ball and roller bearings.....	1	100.0	28.5	32.1	6.9	2.5	18.6	2.0	9.4	e
359	Miscellaneous machinery and parts (except electrical).....	12	100.0	48.1	14.1	8.1	11.2	9.1	5.3	4.1	d
36	Electrical machinery and equipment..	174	100.0	23.7	18.0	5.6	8.4	21.1	10.1	13.1	c
361	Electrical transmission and distribution equipment.....	6	100.0	34.0	4.0	3.6	3.4	37.6	7.2	10.2	d
3611	Electrical measuring instruments and test equipment.....	3	100.0	17.1	3.7	2.3	3.6	49.0	11.2	13.1	e
364	Electric lighting and wiring equipment.....	75	100.0	27.7	16.9	7.2	8.4	16.6	11.7	11.5	d
3642	Lighting fixtures.....	53	100.0	22.0	16.2	8.4	9.5	19.2	10.1	14.6	d
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records	29	100.0	23.1	11.1	3.7	15.1	15.9	7.0	24.1	d
366	Communication equipment.....	21	100.0	28.2	10.6	4.2	7.4	21.4	11.6	16.6	d
367	Electronic components or accessories	6	100.0	26.2	7.3	7.5	2.4	43.5	7.9	5.2	d
3679	Miscellaneous electronic components and accessories.....	4	100.0	20.6	6.5	7.5	1.2	55.0	7.1	2.1	e
38	Instruments, photographic goods, optical goods, watches, and clocks.	41	100.0	26.1	16.1	4.3	5.8	18.3	13.1	16.3	c
384	Surgical, medical, and dental instruments and supplies.....	5	100.0	71.4	4.7	1.9	3.8	6.5	5.5	6.2	c
385	Ophthalmic and opticians goods.....	14	100.0	28.2	36.3	2.2	5.7	14.6	3.5	9.5	e
386	Photographic equipment and supplies.	4	100.0	35.7	7.1	6.9	6.6	12.2	11.7	19.8	e
387	Watches, clocks, and parts, and clockwork operated devices and parts.....	3	100.0	14.5	10.2	11.3	8.7	29.6	12.2	13.5	e
39	Miscellaneous products of manufacturing.....	127	100.0	22.7	10.2	2.8	8.8	32.4	5.0	18.1	d
399	Miscellaneous manufactured products.	12	100.0	10.3	23.3	6.2	10.5	25.4	12.2	12.1	e

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by production area ¹ of destination								
			Total	1	2	3 ²	4	5	6	7	8
	Total.....	9,767	100.0	5.0	4.0	29.6	10.8	5.9	1.2	1.3	0.6
20	Food and kindred products.....	4,414	100.0	4.8	4.5	33.6	9.5	6.4	1.3	1.4	.9
207	Confectionery and related products...	127	100.0	5.3	2.6	3.3	9.7	3.3	3.7	.2	.1
208	Beverages and flavoring extracts.....	3,012	100.0	5.7	5.2	41.3	6.5	6.3	1.0	1.5	.6
2082	Malt liquors.....	1,039	100.0	12.7	10.2	11.1	16.7	13.0	.9	4.5	1.4
23	Apparel, including knit apparel, and other finished textile products....	360	100.0	4.5	2.7	4.1	4.5	6.4	1.8	.4	1.8
231	Men's, youths', and boys' clothing...	56	100.0	4.6	.5	3.3	6.7	5.3	5.4	.6	.8
233	Women's, misses', girls', and infants' clothing.....	200	100.0	2.8	3.9	3.6	3.5	4.2	.6	.3	.9
25	Furniture and fixtures.....	122	100.0	2.5	2.1	15.7	2.7	5.1	1.8	.4	.7
251	Household and office furniture.....	71	100.0	2.4	2.3	16.1	3.8	4.9	1.1	.2	1.2
254	Partitions, shelving, lockers, and office and store fixtures.....	19	100.0	2.8	3.3	28.8	1.2	.8	.7	.3	.1
26	Pulp, paper, and allied products.....	1,187	100.0	4.4	2.5	39.9	11.1	5.6	1.1	.9	.2
264	Converted paper and paperboard products (except containers and boxes).....	574	100.0	6.8	2.1	15.7	12.0	8.6	1.5	1.8	.2
28	Chemicals and allied products.....	660	100.0	4.3	3.1	21.7	17.8	8.0	.8	.4	.1
283	Drugs and medicines (including biological products, medicinal chemicals, botanical products, and pharmaceutical preparations).....	107	100.0	3.5	3.0	4.4	11.1	3.5	1.0	.1	.2
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	328	100.0	5.7	1.9	28.7	13.7	12.3	.7	.7	.1
2841	Soap and other detergents (except specialty cleansers).....	247	100.0	6.8	1.6	30.1	17.1	11.0	.8	.8	.1
2844	Perfumes, cosmetics, and other toilet preparations.....	74	100.0	2.3	1.3	23.6	2.4	17.5	.4	.5	-
30	Rubber and miscellaneous plastics products.....	139	100.0	5.8	3.0	10.8	9.2	6.8	1.9	-	.1
306	Miscellaneous fabricated rubber products.....	25	100.0	.1	3.5	20.7	4.4	.5	.1	.1	.2
307	Miscellaneous plastic products.....	113	100.0	7.1	2.9	8.6	10.2	8.3	2.3	-	.1
31	Leather and leather products.....	133	100.0	9.6	1.2	13.0	8.7	1.8	.5	.3	1.3
316	Luggage and handbags, all materials, and other personal leather goods.....	117	100.0	10.1	1.4	14.4	9.6	1.8	.3	.3	1.5
33	Primary metal products.....	568	100.0	9.9	7.7	5.6	17.9	5.6	2.3	.1	.1
335	Nonferrous metal basic shapes.....	249	100.0	4.7	2.7	7.8	17.0	5.1	2.7	.3	.1
3357	Nonferrous wire (including insulated wire).....	149	100.0	6.1	2.0	9.5	6.3	7.1	3.1	.4	.2
33574	Wire and cable, insulated, enameled or covered.....	137	100.0	5.8	1.4	9.8	6.5	6.8	3.3	.5	.1
336	Nonferrous and nonferrous base alloy castings.....	26	100.0	7.2	9.3	21.9	28.7	2.2	.1	-	-
34	Fabricated metal products.....	442	100.0	9.1	4.8	19.2	8.5	7.4	.9	.6	.4
344	Structural and miscellaneous metal products.....	237	100.0	10.7	3.1	21.8	7.4	1.8	.9	.5	.6
3442	Metal doors, sash, frames, molding, and trim.....	120	100.0	6.1	4.2	15.9	6.2	.8	1.8	.9	1.2
349	Miscellaneous fabricated metal products.....	31	100.0	1.2	25.6	37.8	1.4	1.1	.1	-	.1

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15	16	17	18
	Total.....	2.1	1.9	1.2	1.0	1.9	0.5	2.5	0.2	0.5	0.2
20	Food and kindred products.....	2.5	2.3	1.2	.9	1.9	.4	1.1	-	-	-
207	Confectionery and related products...	4.2	2.1	5.3	1.7	3.4	.4	4.3	1.0	.3	.2
208	Beverages and flavoring extracts.....	1.8	.9	-	.7	.1	-	.1	-	-	-
2082	Malt liquors.....	2.1	.4	-	-	-	-	-	-	-	-
23	Apparel, including knit apparel, and other finished textile products.....	.7	3.2	3.4	1.6	2.7	1.4	12.6	1.5	.9	1.1
231	Men's, youths', and boys' clothing...	1.2	.4	.9	1.3	5.5	1.7	9.5	.6	1.9	.7
233	Women's, misses', girls', and infants' clothing.....	.6	1.6	4.9	2.1	1.8	1.3	15.2	2.2	.8	1.5
25	Furniture and fixtures.....	3.6	4.5	2.4	.3	3.0	4.0	2.9	.1	1.6	.1
251	Household and office furniture.....	3.1	.1	3.4	.3	4.7	5.5	3.8	.2	2.2	-
254	Partitions, shelving, lockers, and office and store fixtures.....	2.3	2.9	.2	.1	.5	2.7	2.7	-	.2	.3
26	Pulp, paper, and allied products.....	.5	1.2	.1	1.1	3.7	.3	2.9	.2	2.8	.1
264	Converted paper and paperboard products (except containers and boxes).....	1.0	.5	.2	2.1	7.6	.5	5.7	.5	5.0	-
28	Chemicals and allied products.....	1.5	1.8	1.5	.3	.4	1.0	5.0	.2	.2	.2
283	Drugs and medicines (including biological products, medicinal chemicals, botanical products, and pharmaceutical preparations).....	.9	1.5	2.3	.6	1.0	2.5	3.8	.1	.2	.5
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	.5	1.5	1.4	.4	.4	1.2	6.0	.3	.2	.1
2841	Soap and other detergents (except specialty cleansers).....	.3	1.0	1.1	.4	.3	1.1	6.9	.3	-	-
2844	Perfumes, cosmetics, and other toilet preparations.....	.7	2.7	2.7	.4	.7	1.9	3.7	.6	1.1	.2
30	Rubber and miscellaneous plastics products.....	3.7	1.4	1.9	4.2	3.4	.7	3.8	1.7	.2	1.0
306	Miscellaneous fabricated rubber products.....	.3	2.4	7.8	17.6	.7	.3	2.3	-	.2	.2
307	Miscellaneous plastic products.....	4.5	1.2	.6	1.2	4.0	.8	4.1	2.0	.2	1.2
31	Leather and leather products.....	.4	1.0	1.1	1.0	2.0	.5	4.1	.5	.2	1.2
316	Luggage and handbags, all materials, and other personal leather goods.....	.3	1.0	1.2	.6	1.8	.5	3.9	.5	.2	1.3
33	Primary metal products.....	2.8	.5	1.3	.3	1.8	.6	1.1	.5	-	.9
335	Nonferrous metal basic shapes.....	3.6	.7	.5	.8	.3	1.3	2.4	1.2	-	2.0
3357	Nonferrous wire (including insulated wire).....	2.0	.6	.2	.1	.5	2.2	1.1	.2	-	3.3
33574	Wire and cable, insulated, enameled or covered.....	2.2	.3	.2	-	.5	2.4	1.2	-	-	3.6
336	Nonferrous and nonferrous base alloy castings.....	.2	2.9	8.6	-	.3	.1	.7	-	.1	-
34	Fabricated metal products.....	1.5	2.9	1.8	.6	3.0	.1	2.3	.1	.3	.4
344	Structural and miscellaneous metal products.....	.6	2.9	.3	.7	.6	-	2.3	.1	.4	.6
3442	Metal doors, sash, frames, molding, and trim.....	.6	3.9	.5	.2	.7	.1	1.8	.2	.8	1.1
349	Miscellaneous fabricated metal products.....	.1	.7	11.7	-	2.2	.1	.7	.1	-	-

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									Sampling variability code ³
		19	20	21	22	23	24	25	30	50	
	Total.....	0.5	0.5	0.2	0.1	0.3	0.7	1.5	10.1	15.7	
20	Food and kindred products.....	.1	.1	-	-	.3	.9	1.1	9.5	15.3	b
207	Confectionery and related products...	.5	3.2	.3	.2	.2	.8	12.9	19.0	11.8	c
208	Beverages and flavoring extracts.....	.1	-	-	-	.5	1.2	1.1	9.9	15.5	b
2082	Malt liquors.....	-	-	-	-	-	-	-	10.3	16.7	a
23	Apparel, including knit apparel, and other finished textile products.....	.7	1.5	.5	.8	.2	1.3	5.1	18.9	15.7	b
231	Men's, youths', and boys' clothing...	-	1.2	.4	1.1	.2	.5	3.2	28.3	14.2	d
233	Women's, misses', girls', and infants' clothing.....	1.2	1.8	.4	.7	.3	1.7	4.0	17.9	20.2	d
25	Furniture and fixtures.....	.2	.8	.5	-	1.0	.6	4.9	21.5	17.0	d
251	Household and office furniture.....	.3	1.3	.8	.1	1.6	.9	7.7	20.2	11.8	d
254	Partitions, shelving, lockers, and office and store fixtures.....	-	.4	-	.1	-	.5	1.7	25.8	21.6	d
26	Pulp, paper, and allied products.....	.1	.5	-	-	.1	.2	.1	7.5	12.9	e
264	Converted paper and paperboard products (except containers and boxes).....	.1	1.0	-	-	.2	.1	-	9.0	17.8	e
28	Chemicals and allied products.....	2.4	.8	.6	.1	-	.7	1.1	9.2	16.8	b
283	Drugs and medicines (including biological products, medicinal chemicals, botanical products, and pharmaceutical preparations).....	6.0	2.9	3.7	-	.1	3.7	5.7	10.1	27.6	d
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	2.0	-	-	-	-	-	.1	9.3	12.8	b
2841	Soap and other detergents (except specialty cleansers).....	.4	-	-	-	-	-	-	6.6	13.3	b
2844	Perfumes, cosmetics, and other toilet preparations.....	7.7	.2	.2	-	-	-	.4	16.7	12.1	c
30	Rubber and miscellaneous plastics products.....	1.9	1.6	.1	.9	.3	.1	3.2	19.2	13.1	e
306	Miscellaneous fabricated rubber products.....	1.5	.2	.7	-	.4	.4	1.1	17.9	16.4	e
307	Miscellaneous plastic products.....	2.0	1.9	-	1.1	.3	-	3.7	19.4	12.3	e
31	Leather and leather products.....	3.4	3.0	.7	2.5	.2	3.3	7.9	19.3	11.3	d
316	Luggage and handbags, all materials, and other personal leather goods.....	3.7	3.3	.8	2.7	.1	3.1	7.9	16.3	11.4	d
33	Primary metal products.....	.7	.5	.4	-	.7	-	1.4	13.7	23.6	c
335	Nonferrous metal basic shapes.....	1.6	1.1	.8	-	1.7	-	2.7	18.4	20.5	c
3357	Nonferrous wire (including insulated wire).....	2.6	1.9	1.3	.1	2.8	.1	4.5	24.1	17.7	d
33574	Wire and cable, insulated, enameled or covered.....	2.9	2.0	1.5	.1	3.0	.1	4.8	24.3	16.7	d
336	Nonferrous and nonferrous base alloy castings.....	-	-	-	-	-	-	4.1	2.1	11.5	d
34	Fabricated metal products.....	1.5	1.0	.1	.2	.2	.3	.3	11.4	21.1	c
344	Structural and miscellaneous metal products.....	-	1.7	.1	.5	-	.3	-	14.8	27.3	d
3442	Metal doors, sash, frames, molding, and trim.....	-	3.2	.2	.9	.1	.5	-	22.6	25.5	e
349	Miscellaneous fabricated metal products.....	.1	.1	-	-	.1	.1	.2	12.2	4.3	d

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Tons (thous.)	Percent distribution by production area ¹ of destination								
			Total	1	2	3 ²	4	5	6	7	8
35	Machinery, except electrical.....	66	100.0	2.7	0.5	11.5	10.7	9.1	1.7	0.9	0.4
356	General industrial machinery and equipment.....	4	100.0	8.2	.5	21.5	7.1	1.6	.7	8.0	.2
3566	Mechanical power transmission equipment, except ball and roller bearings.....	1	100.0	2.6	1.3	10.6	8.2	2.1	1.5	23.3	-
359	Miscellaneous machinery and parts (except electrical).....	12	100.0	3.3	1.5	25.8	8.0	9.0	3.8	.4	1.3
36	Electrical machinery and equipment...	174	100.0	9.7	2.4	9.8	6.0	3.1	1.9	.5	.2
361	Electrical transmission and distribution equipment.....	6	100.0	1.5	3.8	13.0	4.4	1.3	.3	3.4	.4
3611	Electrical measuring instruments and test equipment.....	3	100.0	1.0	.7	9.2	.5	.4	.1	5.6	.6
364	Electric lighting and wiring equipment.....	75	100.0	8.0	2.0	13.9	7.6	3.4	.7	.7	.2
3642	Lighting fixtures.....	53	100.0	7.0	1.3	11.0	6.8	2.5	.5	.4	.2
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records.	29	100.0	4.9	5.7	7.2	2.7	5.6	4.7	.1	-
366	Communication equipment.....	21	100.0	1.2	2.0	7.6	8.1	3.7	3.7	.3	.2
367	Electronic components or accessories.	6	100.0	2.9	1.1	10.3	12.8	1.1	.3	-	.5
3679	Miscellaneous electronic components and accessories.....	4	100.0	1.6	1.3	8.4	9.8	1.1	.2	-	.6
38	Instruments, photographic goods, optical goods, watches, and clocks..	41	100.0	8.8	.6	7.8	4.0	8.7	.4	4.0	.2
384	Surgical, medical, and dental instruments and supplies.....	5	100.0	2.0	.9	2.6	18.0	14.6	.5	.1	.4
385	Ophthalmic and opticians goods.....	14	100.0	23.2	.1	8.9	.6	18.3	.1	12.0	-
386	Photographic equipment and supplies..	4	100.0	2.7	.5	33.6	.9	1.5	.3	-	1.0
387	Watches, clocks, and parts, and clockwork operated devices and parts	3	100.0	2.6	1.2	1.6	5.8	4.1	1.2	.7	.5
39	Miscellaneous products of manufacturing.....	127	100.0	1.8	4.0	14.1	2.2	3.2	.9	.4	2.2
399	Miscellaneous manufactured products..	12	100.0	3.1	1.1	4.4	2.0	2.7	3.1	1.2	13.5

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15	16	17	18
35	Machinery, except electrical.....	0.2	5.0	1.0	0.1	1.2	0.2	6.2	0.1	0.6	0.1
356	General industrial machinery and equipment.....	.4	2.6	.7	.2	.2	.5	4.3	.3	1.2	1.3
3566	Mechanical power transmission equipment, except ball and roller bearings.....	1.2	2.2	.8	.2	.8	1.6	5.9	1.0	.2	.2
359	Miscellaneous machinery and parts (except electrical).....	.6	1.4	.7	-	2.2	.9	1.0	.3	.1	-
36	Electrical machinery and equipment...	1.2	1.2	2.1	.9	2.9	1.3	3.3	.2	.5	.6
361	Electrical transmission and distribution equipment.....	.2	.2	.1	-	13.1	1.5	9.5	.1	.4	-
3611	Electrical measuring instruments and test equipment.....	.2	.2	-	-	20.4	.4	13.0	.1	.7	-
364	Electric lighting and wiring equipment.....	1.2	1.1	1.8	.4	2.8	1.5	1.8	.2	.2	.7
3642	Lighting fixtures.....	1.3	.7	2.0	.3	3.7	1.8	1.9	.2	.2	.9
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records.	1.2	2.5	6.0	2.9	4.8	.4	4.4	.2	.6	1.2
366	Communication equipment.....	1.9	1.9	.8	.6	1.6	.9	3.2	.2	1.8	.9
367	Electronic components or accessories.	2.1	3.0	.1	-	1.2	.8	17.3	.2	1.2	-
3679	Miscellaneous electronic components and accessories.....	2.6	3.3	.1	-	1.4	.4	22.2	-	.6	-
38	Instruments, photographic goods, optical goods, watches, and clocks..	.7	.9	1.2	1.5	1.5	1.6	5.3	.2	.3	1.9
384	Surgical, medical, and dental instruments and supplies.....	.3	.6	.7	.3	1.9	-	1.4	.2	.4	.2
385	Ophthalmic and opticians goods.....	.1	.9	1.0	2.5	2.1	4.3	4.5	.6	.3	.2
386	Photographic equipment and supplies..	.3	2.9	1.5	.1	2.3	.2	3.6	.1	.3	.6
387	Watches, clocks, and parts, and clock-work operated devices and parts.....	1.9	2.3	3.1	.8	1.3	1.8	8.3	.3	.3	3.9
39	Miscellaneous products of manufacturing.....	.8	2.6	1.0	.8	2.8	.7	21.3	.3	.6	.7
399	Miscellaneous manufactured products..	.2	5.1	1.1	2.1	4.4	.9	13.9	.1	1.3	1.5

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									Sampling variability code ³
		19	20	21	22	23	24	25	30	50	
35	Machinery, except electrical.....	1.5	1.7	-	0.2	-	0.6	1.0	22.9	19.9	c
356	General industrial machinery and equipment.....	.5	.4	0.3	2.0	-	5.6	2.4	12.0	17.3	e
3566	Mechanical power transmission equipment, except ball and roller bearings.....	-	.7	.6	-	-	.3	3.5	11.9	19.3	e
359	Miscellaneous machinery and parts (except electrical).....	1.7	.1	.1	-	-	1.5	2.0	11.0	23.3	d
36	Electrical machinery and equipment...	.8	1.3	.7	.3	0.8	2.5	4.1	22.5	19.2	c
361	Electrical transmission and distribution equipment.....	.2	.5	.2	-	.2	.5	2.0	18.8	24.4	d
3611	Electrical measuring instruments and test equipment.....	.4	.8	.3	-	.1	.6	2.4	25.1	17.2	e
364	Electric lighting and wiring equipment.....	.7	1.8	.7	.4	-	2.0	3.1	23.3	19.8	d
3642	Lighting fixtures.....	.7	2.3	.9	.6	-	2.1	4.4	23.2	23.1	d
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records.	2.3	.8	.5	.4	2.6	5.5	13.3	12.4	7.1	d
366	Communication equipment.....	.6	2.0	1.4	.4	2.9	1.6	2.7	26.7	21.1	d
367	Electronic components or accessories.	.2	2.1	-	-	.4	1.2	1.8	12.6	26.8	d
3679	Miscellaneous electronic components and accessories.....	.1	1.7	-	-	.1	.9	.5	10.9	32.2	e
38	Instruments, photographic goods, optical goods, watches, and clocks..	3.5	3.9	.4	.6	.3	.7	8.4	19.4	13.2	c
384	Surgical, medical, and dental instruments and supplies.....	.2	1.7	.1	.3	.1	.4	2.1	11.4	38.6	c
385	Ophthalmic and opticians goods.....	1.2	.1	.3	.1	.6	-	8.2	4.6	5.2	e
386	Photographic equipment and supplies..	.4	.3	.9	3.4	.4	3.0	8.7	18.8	11.7	e
387	Watches, clocks, and parts, and clockwork operated devices and parts	.9	1.4	1.9	1.7	.8	1.2	3.7	26.7	20.0	e
39	Miscellaneous products of manufacturing.....	.5	.4	.4	.8	.6	1.3	12.1	12.2	11.3	d
399	Miscellaneous manufactured products..	.9	.6	.8	3.1	.4	1.2	4.2	20.3	6.8	e

¹See description of production areas on page 313.²Includes only those shipments that originated in one city in this area and terminated in another city in this area.³Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 5. Ton-Miles of Shipments—Production Area Destination and Commodity: 1963

TCC code	Commodity	Ton-miles (millions)	Percent distribution by production area ¹ of destination								
			Total	1	2	3 ²	4	5	6	7	8
	Total.....	2,630	100.0	3.3	1.0	1.9	0.9	1.8	0.8	0.4	0.4
20	Food and kindred products.....	919	100.0	4.2	1.5	2.3	1.1	2.6	1.1	.5	.7
207	Confectionery and related products...	88	100.0	1.3	.3	.1	.3	.4	.9	-	-
208	Beverages and flavoring extracts.....	596	100.0	5.1	1.7	2.7	.8	2.6	1.0	.6	.4
2082	Malt liquors.....	93	100.0	25.5	8.6	3.2	4.7	10.8	1.8	3.6	2.3
23	Apparel, including knit apparel, and other finished textile products.....	242	100.0	1.2	.3	.1	.1	.8	.5	-	.4
231	Men's, youths', and boys' clothing...	36	100.0	1.3	.1	.1	.2	.8	1.4	.1	.2
233	Women's, misses', girls', and infants' clothing.....	139	100.0	.7	.4	.1	.1	.5	.1	-	.2
25	Furniture and fixtures.....	65	100.0	.8	.3	.7	.1	.8	.6	.1	.2
251	Household and office furniture.....	44	100.0	.7	.3	.5	.2	.7	.3	-	.3
254	Partitions, shelving, lockers, and office and store fixtures.....	7	100.0	1.4	.5	2.6	.1	.2	.4	.1	-
26	Pulp, paper, and allied products.....	235	100.0	4.1	.9	3.7	1.0	2.3	1.0	.3	.2
264	Converted paper and paperboard products (except containers and boxes).....	163	100.0	4.4	.7	1.0	.6	2.4	.9	.4	.1
28	Chemicals and allied products.....	189	100.0	2.7	.8	1.7	1.4	2.5	.5	.1	.1
283	Drugs and medicines (including biological products, medicinal chemicals, botanical products, and pharmaceutical preparations).....	74	100.0	.9	.2	.2	.3	.4	.2	-	-
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	71	100.0	4.9	.5	2.8	1.4	5.1	.5	.3	.1
2841	Soap and other detergents (except specialty cleansers).....	38	100.0	8.2	.6	4.0	2.3	5.1	.8	.4	.1
2844	Perfumes, cosmetics, and other toilet preparations.....	30	100.0	1.0	.2	1.4	.2	5.4	.2	.1	-
30	Rubber and miscellaneous plastics products.....	64	100.0	2.2	.4	.4	.5	1.3	.7	-	-
306	Miscellaneous fabricated rubber products.....	12	100.0	-	.2	.8	.2	.1	.1	-	.1
307	Miscellaneous plastic products.....	52	100.0	2.7	.4	.3	.6	1.6	.9	-	-
31	Leather and leather products.....	97	100.0	2.4	.1	.3	.2	.2	.1	-	.3
316	Luggage and handbags, all materials, and other personal leather goods.....	82	100.0	2.6	.1	.3	.3	.2	.1	-	.3
33	Primary metal products.....	193	100.0	5.4	1.3	.3	.9	1.4	1.1	-	-
335	Nonferrous metal basic shapes.....	126	100.0	1.6	.3	.3	.6	.8	.9	.1	-
3357	Nonferrous wire (including insulated wire).....	98	100.0	1.6	.2	.3	.2	.9	.8	.1	-
33574	Wire and cable, insulated, enameled or covered.....	93	100.0	1.5	.1	.3	.2	.8	.9	.1	-
336	Nonferrous and nonferrous base alloy castings.....	6	100.0	5.7	3.0	1.7	2.1	.9	.1	-	-
34	Fabricated metal products.....	132	100.0	5.1	1.0	1.6	.7	2.0	.5	.2	.2
344	Structural and miscellaneous metal products.....	79	100.0	5.4	.5	1.7	.7	.5	.5	.2	.3
3442	Metal doors, sash, frames, molding, and trim.....	63	100.0	1.8	.3	.6	.4	.1	.7	.2	.4
349	Miscellaneous fabricated metal products.....	7	100.0	.9	8.6	4.3	.2	.4	-	-	.1

See footnotes at end of table.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15	16	17	18
	Total.....	1.2	1.9	1.8	1.2	3.5	1.0	6.5	0.6	1.8	0.7
20	Food and kindred products.....	2.0	2.8	2.3	1.4	4.4	.9	3.8	.1	.1	.2
207	Confectionery and related products...	.9	.8	2.9	.8	2.4	.3	4.4	1.1	.4	.3
208	Beverages and flavoring extracts.....	1.4	1.1	.1	1.1	.2	-	.5	-	.1	.2
2082	Malt liquors.....	3.3	1.2	-	-	-	-	-	-	-	-
23	Apparel, including knit apparel, and other finished textile products.....	.2	1.2	2.0	.7	2.0	1.2	13.3	1.7	1.3	1.5
231	Men's, youths', and boys' clothing...	.2	.2	.6	.6	4.2	1.5	10.5	.7	2.9	.9
233	Women's, misses', girls', and infants' clothing.....	.1	.6	2.8	.9	1.3	1.1	15.5	2.3	1.1	1.9
25	Furniture and fixtures.....	1.0	2.4	1.8	.2	2.7	4.2	4.0	.1	3.0	.1
251	Household and office furniture.....	.8	.1	2.2	.2	3.7	5.0	4.4	.2	3.7	.1
254	Partitions, shelving, lockers, and office and store fixtures.....	1.1	2.4	.3	.1	.7	4.4	5.5	-	.5	.7
26	Pulp, paper, and allied products.....	.4	1.5	.2	1.7	9.1	.7	10.6	.9	14.3	.4
264	Converted paper and paperboard products (except containers and boxes).....	.6	.5	.3	2.4	13.0	1.0	14.3	1.3	18.0	.1
28	Chemicals and allied products.....	.8	1.8	2.1	.4	.7	2.0	12.5	.5	.6	.5
283	Drugs and medicines (including biological products, medicinal chemicals, botanical products, and pharmaceutical preparations).....	.2	.6	1.3	.3	.7	2.0	3.9	.1	.3	.7
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	.4	1.7	2.6	.5	.8	3.2	19.7	1.1	1.2	.2
2841	Soap and other detergents (except specialty cleansers).....	.3	1.6	2.6	.7	.8	3.9	31.3	1.2	.1	.1
2844	Perfumes, cosmetics, and other toilet preparations.....	.2	1.6	2.7	.3	.9	2.5	6.5	1.0	2.6	.4
30	Rubber and miscellaneous plastics products.....	1.5	.8	1.7	3.1	3.6	.8	5.8	2.6	.5	1.9
306	Miscellaneous fabricated rubber products.....	.1	1.5	6.8	13.2	.8	.4	3.6	-	.5	.3
307	Miscellaneous plastic products.....	1.8	.7	.5	.9	4.2	.9	6.3	3.2	.5	2.2
31	Leather and leather products.....	.1	.4	.6	.4	1.3	.4	4.0	.5	.3	1.5
316	Luggage and handbags, all materials, and other personal leather goods.....	.1	.4	.7	.3	1.2	.4	4.0	.5	.3	1.6
33	Primary metal products.....	1.3	.4	1.5	.3	2.7	1.0	2.3	1.2	-	2.2
335	Nonferrous metal basic shapes.....	1.1	.4	.3	.5	.3	1.5	3.4	1.8	-	3.4
3357	Nonferrous wire (including insulated wire).....	.5	.3	.1	-	.4	1.9	1.2	.2	-	4.4
33574	Wire and cable, insulated, enameled or covered.....	.5	.1	.1	-	.4	2.0	1.3	-	-	4.6
336	Nonferrous and nonferrous base alloy castings.....	.1	3.2	15.5	-	.6	.2	2.3	-	.4	.2
34	Fabricated metal products.....	.7	2.8	2.4	.6	5.0	.3	5.6	.3	1.0	1.0
344	Structural and miscellaneous metal products.....	.3	2.5	.3	.7	.8	-	4.9	.3	1.3	1.5
3442	Metal doors, sash, frames, molding, and trim.....	.2	2.2	.3	.1	.7	.1	2.5	.3	1.6	1.9
349	Miscellaneous fabricated metal products.....	.1	.9	22.3	-	5.3	.2	2.5	.3	.1	-

See footnotes at end of table.

TABLE 5. Ton-Miles of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued								
		19	20	21	22	23	24	25	30	50
	Total.....	1.3	2.6	1.0	0.8	2.4	7.1	13.8	23.7	16.6
20	Food and kindred products.....	.4	.9	.1	.2	3.8	10.6	13.4	25.1	13.5
207	Confectionery and related products...	.6	6.4	.6	.4	.6	3.0	46.1	17.9	6.8
208	Beverages and flavoring extracts....	.4	.3	-	.3	5.9	15.6	13.7	30.4	13.8
2082	Malt liquors.....	-	-	-	-	-	-	-	15.8	19.2
23	Apparel, including knit apparel, and other finished textile products....	.8	3.0	1.0	2.0	.7	4.8	18.6	24.8	15.8
231	Men's, youths', and boys' clothing...	.1	2.6	.8	2.7	.7	2.1	12.1	40.8	11.6
233	Women's, misses', girls', and infants' clothing.....	1.2	3.6	.8	1.6	.9	6.3	14.2	21.2	20.5
25	Furniture and fixtures.....	.3	2.0	1.3	.1	4.4	2.9	22.4	30.6	12.9
251	Household and office furniture.....	.4	2.8	1.9	.2	6.4	3.7	30.2	22.5	8.5
254	Partitions, shelving, lockers, and office and store fixtures.....	-	1.4	-	.4	-	3.9	11.8	38.5	23.0
26	Pulp, paper, and allied products.....	.3	3.5	-	.1	1.0	2.4	.8	23.3	15.3
264	Converted paper and paperboard products (except containers and boxes).....	.3	4.6	.1	.2	1.4	1.1	.4	18.2	11.7
28	Chemicals and allied products.....	6.1	3.6	3.2	.4	.1	5.8	9.1	21.8	18.2
283	Drugs and medicines (including biological products, medicinal chemicals, botanical products, and pharmaceutical preparations).....	6.4	5.8	7.6	-	.3	13.7	20.1	16.6	17.2
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	6.9	.3	.3	.3	.1	.4	1.0	28.2	15.5
2841	Soap and other detergents (except specialty cleansers).....	1.8	.1	.1	.2	.2	.7	.1	18.4	14.3
2844	Perfumes, cosmetics, and other toilet preparations.....	14.1	.5	.5	.2	-	.1	2.3	37.1	18.0
30	Rubber and miscellaneous plastics products.....	3.1	4.8	.4	3.2	1.7	.5	17.2	31.5	9.8
306	Miscellaneous fabricated rubber products.....	2.5	.7	2.1	.1	2.1	2.1	6.0	40.3	15.4
307	Miscellaneous plastic products.....	3.3	5.8	-	4.0	1.6	.1	19.6	29.4	8.5
31	Leather and leather products.....	3.5	5.8	1.4	5.6	.7	11.5	26.8	24.2	7.4
316	Luggage and handbags, all materials, and other personal leather goods.....	4.0	6.6	1.5	6.3	.3	11.3	27.6	22.0	7.0
33	Primary metal products.....	1.5	2.0	1.5	.1	5.2	.4	9.8	21.1	35.1
335	Nonferrous metal basic shapes.....	2.3	3.0	2.3	.1	7.9	.2	13.0	25.1	28.8
3357	Nonferrous wire (including insulated wire).....	3.0	3.9	2.9	.1	10.2	.3	16.8	27.5	22.2
33574	Wire and cable, insulated, enameled or covered.....	3.1	4.1	3.1	.2	10.6	.3	17.2	27.0	21.5
336	Nonferrous and nonferrous base alloy castings.....	-	.1	-	-	-	-	43.9	5.6	14.4
34	Fabricated metal products.....	3.9	4.4	.4	1.4	2.0	2.8	2.1	28.2	23.8
344	Structural and miscellaneous metal products.....	.1	6.9	.5	2.2	.4	2.2	-	33.3	32.0
3442	Metal doors, sash, frames, molding, and trim.....	.1	8.4	.4	2.8	.4	2.4	-	37.8	33.3
349	Miscellaneous fabricated metal products.....	.5	.6	-	-	.6	1.1	2.3	40.5	8.2

See footnotes at end of table.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**—Continued

TCC code	Commodity	Ton-miles (millions)	Percent distribution by production area ¹ of destination								
			Total	1	2	3 ²	4	5	6	7	8
35	Machinery, except electrical.....	27	100.0	1.2	0.1	0.7	0.5	1.8	0.7	0.2	0.1
356	General industrial machinery and equipment.....	2	100.0	2.6	.1	.7	.4	.2	.3	1.7	.1
3566	Mechanical power transmission equipment, except ball and roller bearings.....	1	100.0	1.0	.2	.6	.6	.4	.6	6.2	-
359	Miscellaneous machinery and parts (except electrical).....	4	100.0	1.8	.3	2.0	1.1	2.4	1.9	.1	.6
36	Electrical machinery and equipment....	115	100.0	2.6	.3	.3	.2	.4	.5	.1	.1
361	Electrical transmission and distribution equipment.....	3	100.0	.4	.5	.6	.2	.2	.1	.4	.1
3611	Electrical measuring instruments and test equipment.....	3	100.0	.2	.1	.2	-	-	-	.5	.1
364	Electric lighting and wiring equipment.....	45	100.0	2.1	.3	.4	.3	.5	.2	.1	-
3642	Lighting fixtures.....	36	100.0	1.6	.2	.3	.3	.3	.2	.1	-
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records..	26	100.0	1.0	.6	.1	.1	.6	.9	-	-
366	Communication equipment.....	16	100.0	.3	.3	.1	.3	.4	.9	-	-
367	Electronic components or accessories..	3	100.0	.8	.1	.3	.4	.2	.1	-	.1
3679	Miscellaneous electronic components and accessories.....	3	100.0	.5	.1	.2	.2	.2	-	-	.2
38	Instruments, photographic goods, optical goods, watches, and clocks...	31	100.0	1.8	.1	.2	.1	.9	.1	.6	-
384	Surgical, medical, and dental instruments and supplies.....	2	100.0	1.2	.2	.2	1.5	3.2	.2	-	.1
385	Ophthalmic and opticians goods.....	6	100.0	7.7	-	.2	-	3.2	-	2.7	-
386	Photographic equipment and supplies...	3	100.0	.6	-	.7	.1	.3	.1	-	.2
387	Watches, clocks, and parts, and clock-work operated devices and parts.....	2	100.0	.6	.1	-	.1	.4	.3	.1	.1
39	Miscellaneous products of manufacturing.....	100	100.0	.4	.3	.3	.1	.4	.2	.1	.4
399	Miscellaneous manufactured products...	8	100.0	.7	.2	.1	-	.3	.8	.2	2.6

See footnotes at end of table.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15	16	17	18
35	Machinery, except electrical.....	0.1	3.4	1.0	0.1	1.4	0.2	10.8	0.2	1.4	0.2
356	General industrial machinery and equipment.....	.2	1.4	.6	.1	.3	.5	5.8	.4	2.2	2.2
3566	Mechanical power transmission equipment, except ball and roller bearings.	.6	1.2	.8	.2	1.0	1.9	9.7	1.5	.4	.4
359	Miscellaneous machinery and parts (except electrical).....	.3	1.2	.8	-	3.2	1.4	2.1	.7	.2	.1
36	Electrical machinery and equipment....	.3	.5	1.3	.4	2.2	1.1	3.5	.2	.8	.8
361	Electrical transmission and distribution equipment.....	.1	.2	.1	-	11.4	1.4	11.5	.1	.8	-
3611	Electrical measuring instruments and test equipment.....	-	.1	-	-	13.7	.3	12.0	-	.9	-
364	Electric lighting and wiring equipment.....	.3	.5	1.2	.2	2.4	1.4	2.1	.2	.4	1.1
3642	Lighting fixtures.....	.3	.3	1.1	.2	2.8	1.5	2.0	.2	.3	1.2
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records..	.2	.8	2.7	1.0	2.6	.3	3.5	.2	.7	1.2
366	Communication equipment.....	.4	.7	.4	.3	1.0	.7	3.0	.2	2.4	1.0
367	Electronic components or accessories..	.7	1.6	.1	-	1.0	.8	21.5	.2	2.2	-
3679	Miscellaneous electronic components and accessories.....	.9	1.7	.1	-	1.3	.4	27.9	-	1.1	-
38	Instruments, photographic goods, optical goods, watches and clocks....	.1	.4	.7	.7	1.0	1.3	5.1	.2	.5	2.3
384	Surgical, medical, and dental instruments and supplies.....	.2	.5	.9	.3	2.9	.1	3.1	.5	1.3	.6
385	Ophthalmic and opticians goods.....	-	.6	.9	1.9	2.2	5.3	7.0	.9	.6	.4
386	Photographic equipment and supplies...	.1	1.1	.9	.1	1.5	.2	3.6	.1	.5	.8
387	Watches, clocks, and parts, and clock-work operated devices and parts.....	.5	.9	1.7	.3	.9	1.4	8.0	.3	.5	4.6
39	Miscellaneous products of manufacturing.....	.2	1.0	.5	.3	1.8	.5	19.4	.3	.7	.8
399	Miscellaneous manufactured products...	-	1.9	.6	1.0	3.2	.7	14.6	.1	1.9	1.9

See footnotes at end of table.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued								
		19	20	21	22	23	24	25	30	50
35	Machinery, except electrical.....	2.8	5.8	0.2	1.0	-	3.9	6.1	31.3	24.8
356	General industrial machinery and equipment.....	.8	1.1	.8	6.2	-	27.5	11.2	20.2	12.4
3566	Mechanical power transmission equipment, except ball and roller bearings	-	2.1	1.7	.2	-	2.3	19.3	18.2	28.9
359	Miscellaneous machinery and parts (except electrical).....	3.9	.2	.3	.1	0.3	11.8	14.3	27.6	21.3
36	Electrical machinery and equipment...	.9	2.6	1.5	.8	3.0	9.8	15.1	31.4	19.3
361	Electrical transmission and distribution equipment.....	.3	1.2	.4	-	.7	2.1	8.3	23.4	35.5
3611	Electrical measuring instruments and test equipment.....	.3	1.5	.5	-	.4	2.0	7.4	24.7	35.1
364	Electric lighting and wiring equipment.....	.9	4.1	1.6	1.2	-	8.5	12.8	34.6	22.6
3642	Lighting fixtures.....	.8	4.7	1.9	1.3	-	7.8	15.8	29.7	25.1
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records.	1.9	1.3	.8	.8	6.9	15.8	36.0	14.7	5.3
366	Communication equipment.....	.6	3.6	2.6	.8	9.2	5.5	8.5	37.3	19.5
367	Electronic components or accessories.	.3	5.1	.1	.2	1.7	5.5	7.8	14.9	34.3
3679	Miscellaneous electronic components and accessories.....	.1	4.3	-	-	.4	4.0	2.4	12.1	41.9
38	Instruments, photographic goods, optical goods, watches, and clocks..	3.4	7.0	.7	1.3	1.1	2.5	27.3	33.2	7.4
384	Surgical, medical, and dental instruments and supplies.....	.5	7.4	.7	1.5	.9	3.2	16.3	38.5	14.0
385	Ophthalmic and opticians goods.....	2.0	.3	1.0	.5	3.0	.1	42.9	9.9	6.7
386	Photographic equipment and supplies..	.4	.6	1.8	7.5	1.3	10.5	29.1	27.4	10.5
387	Watches, clocks, and parts, and clock-work operated devices and parts.....	.9	2.6	3.6	3.8	2.5	4.2	12.1	35.7	13.8
39	Miscellaneous products of manufacturing.....	.5	.7	.6	1.7	1.9	4.3	37.4	12.9	12.3
399	Miscellaneous manufactured products..	1.0	1.1	1.6	7.4	1.4	4.4	15.0	31.0	6.3

¹See description of production areas on page 313.²Includes only those shipments that originated in one city in this area and terminated in another city in this area.

Production Area 4

Production Area 4 consists of three standard metropolitan statistical areas: Newark, N.J.; Jersey City, N.J.; Paterson-Clifton-Passaic, N.J.; and Middlesex and Somerset counties, N.J.

Data are based on 363 plants from which 44,346 shipping documents were sampled. The sampling variability on the estimated 25.3 million tons shipped from Production Area 4 is ± 7.9 percent.

Major commodity groups shipped from Production Area 4 and their area of destinations are summarized in table A below.

Table A. — DISTRIBUTION OF TONS OF COMMODITIES SHIPPED FROM PRODUCTION AREA 4, BY AREA OF DESTINATION

TCC code	Commodity class	Total tons (thousands)	Percent distribution by destination area			
			Production Area 4 ¹	Other production areas	Other SMSA's	Balance of country
	Total.....	² 25,321	12.4	59.4	9.1	19.1
20	Food and kindred products.....	3,497	9.5	63.1	13.6	13.8
23	Apparel, including knit apparel, and other finished textile products.....	45	6.1	59.5	24.2	10.2
25	Furniture and fixtures.....	391	2.8	61.1	14.8	21.3
26	Pulp, paper, and allied products.....	838	21.7	57.6	8.8	11.9
28	Chemicals and allied products.....	6,091	13.9	58.2	14.5	13.4
29	Petroleum and coal products.....	8,019	12.6	56.7	1.9	28.8
30	Rubber and miscellaneous plastics products....	159	7.6	48.4	16.6	27.4
32	Stone, clay, and glass products.....	732	6.4	65.0	8.3	20.3
33	Primary metal products.....	1,646	14.4	63.7	7.1	14.8
34	Fabricated metal products.....	1,175	14.1	64.6	8.8	12.5
35	Machinery, except electrical.....	336	3.1	44.5	17.8	34.6
36	Electrical machinery and equipment.....	660	4.7	63.3	17.7	14.3
38	Instruments, photographic goods, optical goods, watches, and clocks.....	96	8.2	58.0	24.0	9.8
39	Miscellaneous products of manufacturing.....	126	.3	89.1	8.5	2.1

¹Includes only those shipments that originated in one city in this area and terminated in another city in this area.

²Includes commodity classes not shown separately.

TABLE 1. Tons of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by means of transport								Sampling variability code ¹
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown	
	Total.....	25,321	100.0	15.3	47.7	10.1	0.1	25.6	0.9	0.3	
20	Food and kindred products.....	3,497	100.0	26.2	47.7	24.7	-	1.0	.4	-	c
208	Beverages and flavoring extracts.....	818	100.0	14.1	40.0	43.9	-	1.9	-	.1	b
209	Miscellaneous food preparations and kindred products.....	1,616	100.0	46.7	48.5	3.8	-	.1	.9	-	d
23	Apparel, including knit apparel, and other finished textile products.....	45	100.0	5.3	63.2	8.2	.2	.1	23.0	-	e
25	Furniture and fixtures.....	391	100.0	6.4	68.5	23.0	-	.2	.5	1.4	e
251	Household and office furniture.....	347	100.0	5.6	74.6	17.8	-	.2	.2	1.6	e
26	Pulp, paper, and allied products.....	838	100.0	13.1	57.4	26.1	-	1.0	2.3	.1	d
264	Converted paper and paperboard products (except containers and boxes).....	180	100.0	9.7	57.4	29.1	-	.6	3.0	.2	d
265	Containers, boxes, and related products, paperboard, fiberboard, and pulpboard.....	584	100.0	13.4	57.1	25.8	-	1.2	2.4	.1	d
2651	Containers and boxes, paperboard, fiberboard, and pulpboard.....	561	100.0	13.6	58.4	24.3	-	1.2	2.5	-	d
28	Chemicals and allied products.....	6,091	100.0	25.7	62.6	7.2	-	3.6	.7	.2	b
281	Industrial chemicals.....	2,155	100.0	49.5	42.9	7.4	-	.1	-	.1	d
2819	Miscellaneous industrial inorganic chemicals.....	354	100.0	38.4	40.8	20.4	-	.4	-	-	b
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	500	100.0	25.8	56.9	16.0	.1	.8	-	.4	c
283	Drugs and medicines (including biological products, medicinal chemicals, botanical products, and pharmaceutical preparations).....	634	100.0	6.0	71.4	.1	.2	18.2	4.1	-	d
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	1,446	100.0	6.3	86.6	1.1	-	4.6	.9	.5	c
2841	Soap and other detergents (except specialty cleansers).....	952	100.0	8.7	85.8	-	-	5.0	.1	.4	c
2844	Perfumes, cosmetics, and other toilet preparations.....	467	100.0	1.6	91.3	.1	.1	3.7	2.6	.6	e
285	Paints, varnishes, lacquers, enamels, and allied products.....	513	100.0	5.0	76.8	11.9	.1	5.6	.6	-	b
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	498	100.0	4.6	76.8	12.3	.1	5.7	.5	-	b
289	Miscellaneous chemical products.....	818	100.0	26.2	58.4	14.7	-	.4	.3	-	c
2899	Chemical products, n.e.c.....	658	100.0	31.0	57.4	10.7	-	.5	.3	.1	c
29	Petroleum and coal products.....	8,019	100.0	4.5	17.6	3.4	-	74.5	-	-	b
30	Rubber and miscellaneous plastics products.....	159	100.0	3.8	86.4	6.1	.2	1.8	1.7	-	b
307	Miscellaneous plastic products.....	129	100.0	2.4	86.5	7.5	.3	2.2	1.1	-	b
32	Stone, clay, and glass products.....	732	100.0	11.4	79.1	7.9	.1	.4	1.0	.1	e
329	Abrasives, asbestos, and miscellaneous nonmetallic mineral products.....	491	100.0	-	88.7	10.7	-	-	.5	.1	e
33	Primary metal products.....	1,646	100.0	22.7	42.4	19.3	.2	11.6	1.0	2.8	a
333	Nonferrous metals primary smelter products (slab, ingot, pig, etc., and residues).....	788	100.0	36.5	23.8	14.3	-	21.3	-	4.1	b
335	Nonferrous metal basic shapes.....	726	100.0	10.7	58.5	24.5	.5	1.8	2.2	1.8	b
3357	Nonferrous wire (including insulated wire).....	426	100.0	14.3	57.8	20.6	.8	3.1	3.4	-	c

See footnote at end of table.

TABLE 1. Tons of Shipments—Means of Transport and Commodity: 1963—Continued

TCC code	Commodity	Tons (thous.)	Percent distribution by means of transport								Sampling variability code ¹
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown	
33574	Wire and cable, insulated, enameled or covered.....	306	100.0	18.4	56.1	20.5	-	4.3	0.7	-	d
336	Nonferrous and nonferrous base alloy castings.....	36	100.0	9.8	75.0	13.9	-	-	.4	0.9	d
34	Fabricated metal products.....	1,175	100.0	12.2	67.3	17.3	0.1	1.9	1.2	-	d
342	Cutlery, hand tools, and general hardware.....	42	100.0	.1	57.4	35.9	.1	-	6.5	-	c
344	Structural and miscellaneous metal products.....	375	100.0	14.6	55.8	29.4	.1	-	.1	-	e
346	Metal stampings.....	109	100.0	7.7	67.5	19.7	.1	1.9	3.1	-	c
349	Miscellaneous fabricated metal products.....	90	100.0	-	78.2	4.7	.9	12.3	3.5	.4	e
35	Machinery, except electrical.....	336	100.0	11.6	68.6	7.9	.7	6.8	4.3	.1	c
356	General industrial machinery and equipment.....	68	100.0	12.5	80.0	5.3	.4	-	1.8	-	c
359	Miscellaneous machinery and parts (except electrical).....	38	100.0	1.0	64.2	5.4	3.4	9.9	16.1	-	d
35999	Machinery and parts, n.e.c. (except electrical).....	37	100.0	.4	63.7	5.6	3.4	10.4	16.5	-	d
36	Electrical machinery and equipment...	660	100.0	4.4	88.1	1.8	.6	.5	4.5	.1	e
362	Electrical industrial apparatus.....	22	100.0	-	77.8	18.3	.3	.6	2.5	.5	c
363	Household appliances.....	4	100.0	-	71.0	1.8	8.8	-	18.1	.3	c
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records.	130	100.0	14.9	76.2	2.1	-	2.3	4.4	.1	d
366	Communication equipment.....	43	100.0	7.8	73.0	.8	2.6	-	15.6	.2	d
367	Electronic components or accessories.	15	100.0	1.6	62.7	22.8	3.7	-	9.1	.1	d
3679	Miscellaneous electronic components and accessories.....	9	100.0	-	83.5	2.0	3.7	-	10.8	-	e
38	Instruments, photographic goods, optical goods, watches, and clocks..	96	100.0	2.1	78.9	.2	.7	.8	17.1	.2	c
382	Measuring, controlling, and indicating instruments.....	16	100.0	.3	25.7	.1	.7	.1	73.0	.1	e
384	Surgical, medical, and dental instruments and supplies.....	36	100.0	.2	89.7	-	.6	1.7	7.8	-	d
39	Miscellaneous products of manufacturing.....	126	100.0	11.7	73.1	-	-	.1	4.0	11.1	e

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 2. Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Ton-miles (millions)	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Un-known
	Total.....	6,647	100.0	29.3	44.9	5.5	0.3	16.9	3.0	0.1
20	Food and kindred products.....	1,040	100.0	55.5	31.8	8.1	-	4.2	.4	-
208	Beverages and flavoring extracts.....	139	100.0	26.4	31.3	27.7	-	14.6	-	-
209	Miscellaneous food preparations and kindred products.....	673	100.0	73.9	23.9	1.8	-	.2	.2	-
23	Apparel, including knit apparel, and other finished textile products.....	21	100.0	16.8	57.7	.3	.8	.7	23.7	-
25	Furniture and fixtures.....	140	100.0	12.6	65.2	18.5	-	.8	2.7	.2
251	Household and office furniture.....	102	100.0	4.4	83.8	9.8	.1	1.1	.5	.3
26	Pulp, paper, and allied products.....	176	100.0	23.1	41.8	16.8	-	4.4	13.8	.1
264	Converted paper and paperboard products (except containers and boxes).....	52	100.0	26.4	31.4	22.4	-	1.0	18.7	.1
265	Containers, boxes, and related products, paperboard, fiberboard, and pulpboard....	95	100.0	19.9	52.8	4.4	-	7.6	15.3	-
2651	Containers and boxes, paperboard, fiberboard, and pulpboard.....	94	100.0	19.9	52.9	4.0	-	7.7	15.5	-
28	Chemicals and allied products.....	2,187	100.0	29.9	47.2	4.3	.1	17.0	1.3	.2
281	Industrial chemicals.....	433	100.0	65.6	26.9	6.7	-	.3	.1	.4
2819	Miscellaneous industrial inorganic chemicals.....	50	100.0	46.5	31.6	19.2	-	2.1	.1	.5
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	175	100.0	47.4	37.3	11.8	.2	3.1	.1	.1
283	Drugs and medicines (including biological products, medicinal chemicals, botanical products, and pharmaceutical preparations)	449	100.0	10.4	25.8	-	.4	59.9	3.5	-
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	660	100.0	12.9	75.4	1.1	-	9.4	1.0	.2
2841	Soap and other detergents-(except specialty cleansers).....	406	100.0	17.9	67.4	-	-	14.4	.1	.2
2844	Perfumes, cosmetics, and other toilet preparations.....	240	100.0	4.3	91.6	.1	.1	1.4	2.5	-
285	Paints, varnishes, lacquers, enamels, and allied products.....	214	100.0	12.7	63.6	6.9	-	14.9	1.9	-
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	210	100.0	12.3	64.0	7.0	-	15.2	1.5	-
289	Miscellaneous chemical products.....	242	100.0	48.9	40.1	9.1	-	1.4	.4	.1
2899	Chemical products, n.e.c.....	205	100.0	50.8	38.1	9.0	-	1.6	.4	.1
29	Petroleum and coal products.....	883	100.0	15.1	17.0	2.0	-	65.8	-	.1
30	Rubber and miscellaneous plastics products.	77	100.0	6.3	81.6	.9	.6	6.7	3.9	-
307	Miscellaneous plastic products.....	57	100.0	6.0	79.6	1.2	.8	9.1	3.3	-
32	Stone, clay, and glass products.....	191	100.0	17.0	56.4	19.4	.2	2.5	4.4	.1
329	Abrasives, asbestos, and miscellaneous non-metallic mineral products.....	108	100.0	-	60.6	34.4	.2	-	4.7	.1
33	Primary metal products.....	489	100.0	46.3	35.3	7.1	.6	8.7	1.4	.6
333	Nonferrous metals primary smelter products (slab, ingot, pig, etc., and residues)....	155	100.0	72.7	8.9	9.5	-	8.1	-	.8
335	Nonferrous metal basic shapes.....	297	100.0	36.9	47.2	6.1	1.0	6.3	1.9	.6
3357	Nonferrous wire (including insulated wire).	237	100.0	42.0	43.5	3.4	1.1	7.9	2.1	-

TABLE 2. Ton-Miles of Shipments—Means of Transport and Commodity: 1963—Continued

TCC code	Commodity	Ton-miles (millions)	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
33574	Wire and cable, insulated, enameled or covered.....	199	100.0	48.4	37.7	2.5	-	9.5	1.9	-
336	Nonferrous and nonferrous base alloy castings.....	11	100.0	19.7	70.0	8.2	-	-	1.0	1.1
34	Fabricated metal products.....	295	100.0	20.2	59.3	3.5	0.6	12.7	3.7	-
342	Cutlery, hand tools, and general hardware..	15	100.0	.9	80.6	2.2	.1	-	16.2	-
344	Structural and miscellaneous metal products	47	100.0	30.3	56.2	10.6	.9	-	2.0	-
346	Metal stampings.....	31	100.0	22.7	58.6	4.4	.2	12.4	1.7	-
349	Miscellaneous fabricated metal products....	45	100.0	-	67.0	.2	2.3	26.9	3.3	.3
35	Machinery, except electrical.....	244	100.0	19.4	53.6	8.7	1.2	10.1	7.0	-
356	General industrial machinery and equipment.	41	100.0	13.1	75.0	10.1	.6	-	1.2	-
359	Miscellaneous machinery and parts (except electrical).....	28	100.0	3.3	56.2	.6	5.8	.2	33.9	-
35999	Machinery and parts, n.e.c. (except electrical).....	26	100.0	1.0	57.4	.6	5.7	.2	35.1	-
36	Electrical machinery and equipment.....	490	100.0	8.6	80.2	.9	1.1	.8	8.4	-
362	Electrical industrial apparatus.....	11	100.0	-	85.6	4.5	.7	1.7	7.4	.1
363	Household appliances.....	3	100.0	-	62.2	.1	16.7	-	20.9	.1
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records.....	97	100.0	33.4	55.9	.3	-	3.6	6.8	-
366	Communication equipment.....	31	100.0	15.2	58.2	.1	4.6	-	21.8	.1
367	Electronic components or accessories.....	11	100.0	5.0	48.3	31.6	4.6	-	10.5	-
3679	Miscellaneous electronic components and accessories.....	5	100.0	-	78.4	.4	5.4	-	15.8	-
38	Instruments, photographic goods, optical goods, watches, and clocks.....	59	100.0	2.7	73.4	-	1.2	1.5	21.1	.1
382	Measuring, controlling, and indicating instruments.....	12	100.0	.6	25.5	-	1.5	.2	72.2	-
384	Surgical, medical, and dental instruments and supplies.....	32	100.0	.7	89.0	-	.7	2.0	7.6	-
39	Miscellaneous products of manufacturing....	66	100.0	56.5	33.0	-	.1	-	8.7	1.7

TABLE 3. Tons of Shipments—Distance and Commodity:
1963

TCC code	Commodity	Tons (thous.)	Percent distribution by distance of shipment								Sam- pling vari- ability code ¹
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over	
	Total.....	25,321	100.0	51.9	14.4	12.2	6.8	8.5	3.5	2.7	
20	Food and kindred products.....	3,497	100.0	38.9	20.5	10.1	15.4	10.2	2.5	2.4	c
208	Beverages and flavoring extracts.....	818	100.0	44.8	28.6	18.2	4.3	1.7	1.7	.7	b
209	Miscellaneous food preparations and kindred products.....	1,616	100.0	25.2	16.0	10.5	24.4	17.0	2.7	4.2	d
23	Apparel, including knit apparel, and other finished textile products.....	45	100.0	37.8	18.7	1.6	5.6	15.3	17.2	3.8	e
25	Furniture and fixtures.....	391	100.0	37.7	21.8	12.1	11.1	5.6	6.3	5.4	e
251	Household and office furniture.....	347	100.0	40.7	20.5	13.2	12.0	5.4	4.5	3.7	e
26	Pulp, paper, and allied products.....	838	100.0	67.6	10.0	5.5	5.0	6.1	3.4	2.4	d
264	Converted paper and paperboard products (except containers and boxes).....	180	100.0	52.8	15.6	10.5	3.9	5.2	9.7	2.3	d
265	Containers, boxes, and related products, paperboard, fiberboard, and pulpboard.....	584	100.0	76.5	8.4	3.6	3.3	3.8	1.9	2.5	d
2651	Containers and boxes, paperboard, fiberboard, and pulpboard.....	561	100.0	76.2	8.5	3.4	3.4	3.9	2.0	2.6	d
28	Chemicals and allied products.....	6,091	100.0	43.8	14.9	8.8	8.4	12.9	7.0	4.2	b
281	Industrial chemicals.....	2,155	100.0	51.3	19.0	7.0	11.3	9.0	1.4	1.0	d
2819	Miscellaneous industrial inorganic chemicals.....	354	100.0	66.9	6.4	18.5	3.6	2.4	1.1	1.1	b
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	500	100.0	40.7	9.2	7.5	15.6	20.6	4.9	1.5	c
283	Drugs and medicines (including biological products, medicinal chemicals, botanical products, and pharmaceutical preparations).....	634	100.0	44.1	5.2	6.5	3.1	16.8	4.3	20.0	d
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	1,446	100.0	37.0	11.7	10.3	8.2	12.2	15.5	5.1	c
2841	Soap and other detergents (except specialty cleansers).....	952	100.0	44.2	12.0	11.1	3.0	8.2	15.4	6.1	c
2844	Perfumes, cosmetics, and other toilet preparations.....	467	100.0	23.2	10.8	8.7	19.3	18.6	16.3	3.1	e
285	Paints, varnishes, lacquers, enamels, and allied products.....	513	100.0	39.8	12.2	12.4	4.6	14.3	13.8	2.9	b
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	498	100.0	39.3	12.4	12.7	3.9	14.6	14.1	3.0	b
289	Miscellaneous chemical products.....	818	100.0	40.2	22.5	10.9	3.4	15.6	6.0	1.4	c
2899	Chemical products, n.e.c.....	658	100.0	37.7	22.6	10.0	3.6	18.0	7.1	1.0	c
29	Petroleum and coal products.....	8,019	100.0	68.5	10.7	18.1	1.0	.9	.8	-	b
30	Rubber and miscellaneous plastics products.....	159	100.0	35.2	8.7	11.7	9.4	21.4	8.4	5.2	b
307	Miscellaneous plastic products.....	129	100.0	39.6	9.2	13.3	5.6	20.5	7.1	4.7	b
32	Stone, clay, and glass products.....	732	100.0	40.5	19.0	21.2	4.6	9.8	3.4	1.5	e
329	Abrasives, asbestos, and miscellane- ous nonmetallic mineral products....	491	100.0	42.3	24.4	16.8	5.0	8.1	2.9	.5	e
33	Primary metal products.....	1,646	100.0	50.3	17.2	7.1	8.6	10.0	2.9	3.9	a
333	Nonferrous metals primary smelter products (slab, ingot, pig, etc., and residues).....	788	100.0	63.7	11.3	9.3	8.1	4.6	.9	2.1	b
335	Nonferrous metal basic shapes.....	726	100.0	36.1	23.4	5.0	8.9	15.9	4.1	6.6	b
3357	Nonferrous wire (including insulated wire).....	426	100.0	36.6	10.1	4.9	11.1	20.1	6.4	10.8	c

See footnote at end of table.

TABLE 3. Tons of Shipments—Distance and Commodity:
1963—Continued

TCC code	Commodity	Tons (thous.)	Percent distribution by distance of shipment								Sampling variability code ¹
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over	
33574	Wire and cable, insulated, enameled or covered.....	306	100.0	35.3	5.5	5.5	12.8	18.8	7.5	14.6	d
336	Nonferrous and nonferrous base alloy castings.....	36	100.0	33.7	22.7	5.6	16.6	19.1	2.2	.1	d
34	Fabricated metal products.....	1,175	100.0	61.7	10.6	5.5	5.9	9.7	4.2	2.4	d
342	Cutlery, hand tools, and general hardware.....	42	100.0	53.2	8.3	8.0	11.4	8.5	4.8	5.8	c
344	Structural and miscellaneous metal products.....	375	100.0	85.0	4.9	1.2	1.8	4.2	1.6	1.3	e
346	Metal stampings.....	109	100.0	53.5	21.0	4.9	4.5	7.6	4.6	3.9	c
349	Miscellaneous fabricated metal products.....	90	100.0	21.7	17.7	6.9	12.0	20.7	20.0	1.0	e
35	Machinery, except electrical.....	336	100.0	15.6	8.8	6.2	10.6	39.6	6.8	12.4	c
356	General industrial machinery and equipment.....	68	100.0	11.3	9.9	9.4	28.0	28.1	5.2	8.1	c
359	Miscellaneous machinery and parts (except electrical).....	38	100.0	40.9	6.4	4.2	8.7	12.9	6.1	20.8	d
35999	Machinery and parts, n.e.c. (except electrical).....	37	100.0	40.1	6.6	4.1	9.1	12.9	6.2	21.0	d
36	Electrical machinery and equipment...	660	100.0	13.0	9.0	10.9	11.0	32.2	9.6	14.3	e
362	Electrical industrial apparatus.....	22	100.0	24.2	7.2	2.0	15.4	45.7	.9	4.6	c
363	Household appliances.....	4	100.0	12.4	8.9	9.0	7.5	25.9	11.7	24.6	c
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records.	130	100.0	15.8	19.6	4.5	11.0	18.5	15.7	14.9	d
366	Communication equipment.....	43	100.0	14.2	4.7	23.5	9.0	21.2	7.2	20.2	d
367	Electronic components or accessories.	15	100.0	26.4	13.6	4.7	4.9	30.4	2.4	17.6	d
3679	Miscellaneous electronic components and accessories.....	9	100.0	34.1	16.3	5.2	5.0	19.5	2.1	17.8	e
38	Instruments, photographic goods, optical goods, watches, and clocks..	96	100.0	29.5	10.0	10.0	13.7	15.8	9.2	11.8	c
382	Measuring, controlling, and indicating instruments.....	16	100.0	21.1	6.5	9.5	13.1	19.1	17.9	12.8	e
384	Surgical, medical, and dental instru- ments and supplies.....	36	100.0	21.2	8.8	11.4	7.6	19.5	9.2	22.3	d
39	Miscellaneous products of manufacturing.....	126	100.0	66.6	1.4	.8	2.7	12.8	2.2	13.5	e

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4 ²	5	6	7	8
	Total.....	25,321	100.0	3.4	7.3	19.9	12.4	9.2	1.7	1.0	1.1
20	Food and kindred products.....	3,497	100.0	5.5	2.7	12.4	9.5	10.8	1.5	.3	4.6
208	Beverages and flavoring extracts.....	818	100.0	3.9	5.4	20.0	3.1	8.9	1.5	.7	1.1
209	Miscellaneous food preparations and kindred products.....	1,616	100.0	8.8	2.4	9.3	8.8	5.1	2.0	.2	.1
23	Apparel, including knit apparel, and other finished textile products.....	45	100.0	11.8	.2	24.4	6.1	6.3	1.9	.2	.9
25	Furniture and fixtures.....	391	100.0	10.0	3.0	16.0	2.8	11.2	1.6	.9	1.3
251	Household and office furniture.....	347	100.0	7.6	3.3	17.8	3.0	11.7	1.8	1.0	1.4
26	Pulp, paper, and allied products.....	838	100.0	1.3	3.3	33.3	21.7	5.7	2.3	2.0	.6
264	Converted paper and paperboard products (except containers and boxes).....	180	100.0	3.6	4.6	31.0	7.4	9.1	7.0	.9	.6
265	Containers, boxes, and related products, paperboard, fiberboard, and pulpboard.....	584	100.0	.8	3.3	37.6	25.6	5.3	1.1	2.6	.2
2651	Containers and boxes, paperboard, fiberboard, and pulpboard.....	561	100.0	.8	2.8	38.0	25.9	5.5	1.2	2.5	.2
28	Chemicals and allied products.....	6,091	100.0	3.1	4.3	13.6	13.9	10.9	2.6	.5	.9
281	Industrial chemicals.....	2,155	100.0	2.8	5.9	6.7	21.7	15.8	3.0	.5	.4
2819	Miscellaneous industrial inorganic chemicals.....	354	100.0	.5	2.0	9.3	43.2	10.3	2.0	1.5	2.2
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	500	100.0	5.9	3.9	12.9	18.2	4.3	.7	.1	.2
283	Drugs and medicines (including biological products, medicinal chemicals, botanical products, and pharmaceutical preparations).....	634	100.0	1.7	7.4	22.2	6.4	8.1	.6	.1	-
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	1,446	100.0	3.2	2.8	21.6	3.9	7.1	3.2	.7	1.3
2841	Soap and other detergents (except specialty cleansers).....	952	100.0	2.4	2.9	25.3	5.4	10.0	4.0	.3	1.2
2844	Perfumes, cosmetics, and other toilet preparations.....	467	100.0	4.7	2.6	15.4	.5	1.2	1.3	1.4	1.7
285	Paints, varnishes, lacquers, enamels, and allied products.....	513	100.0	1.6	2.3	19.3	6.9	8.2	1.4	.3	1.1
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	498	100.0	1.6	2.0	18.5	7.1	8.4	1.4	.3	1.2
289	Miscellaneous chemical products.....	818	100.0	3.7	2.2	7.6	18.9	12.9	4.3	1.0	2.4
2899	Chemical products, n.e.c.....	658	100.0	2.7	2.3	6.1	18.3	12.3	4.7	1.2	2.0
29	Petroleum and coal products.....	8,019	100.0	.7	15.4	28.0	12.6	8.4	.3	1.1	-
30	Rubber and miscellaneous plastics products.....	159	100.0	1.4	2.5	10.9	7.6	7.9	4.4	1.0	.1
307	Miscellaneous plastic products.....	129	100.0	1.4	2.7	12.5	7.6	9.4	4.8	1.0	-
32	Stone, clay, and glass products.....	732	100.0	5.3	1.8	14.6	6.4	17.4	1.0	.3	4.6
329	Abrasives, asbestos, and miscellaneous nonmetallic mineral products.....	491	100.0	5.7	2.3	14.2	9.3	16.0	.1	.5	6.8
33	Primary metal products.....	1,646	100.0	6.1	6.2	19.8	14.4	5.8	3.7	1.0	.1
333	Nonferrous metals primary smelter products (slab, ingot, pig, etc., and residues).....	788	100.0	2.8	10.8	20.2	21.2	5.0	1.4	1.9	-
335	Nonferrous metal basic shapes.....	726	100.0	9.9	1.5	20.1	7.9	5.0	6.7	.1	.2
3357	Nonferrous wire (including insulated wire).....	426	100.0	4.2	1.9	20.6	7.2	5.4	.7	.2	.1

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15	16	17	18
	Total.....	1.7	2.1	1.7	1.5	1.2	0.8	2.1	0.2	0.6	0.3
20	Food and kindred products.....	2.3	1.7	6.7	2.3	2.8	1.7	3.4	.1	-	.1
208	Beverages and flavoring extracts.....	3.9	1.6	.2	1.6	-	-	.2	.2	-	-
209	Miscellaneous food preparations and kindred products.....	1.2	2.3	11.3	3.7	5.7	3.5	5.0	-	.1	.3
23	Apparel, including knit apparel, and other finished textile products.....	.6	.1	2.5	.8	1.5	1.3	1.1	-	1.6	.9
25	Furniture and fixtures.....	2.1	2.0	.6	3.4	2.4	.3	1.0	.1	.1	.1
251	Household and office furniture.....	2.4	2.0	.7	3.9	2.5	.2	1.1	.1	-	.1
26	Pulp, paper, and allied products.....	.7	2.0	.6	.5	.4	.3	.9	.1	1.5	.4
264	Converted paper and paperboard products (except containers and boxes).....	3.0	3.0	.1	1.5	-	.1	3.2	-	-	-
265	Containers, boxes, and related products, paperboard, fiberboard, and pulpboard.....	-	1.8	.8	.2	.5	.1	.3	.1	-	.6
2651	Containers and boxes, paperboard, fiberboard, and pulpboard.....	-	1.6	.8	.2	.6	.1	.3	.1	-	.6
28	Chemicals and allied products.....	1.9	2.5	1.1	2.7	1.2	1.1	4.0	.4	1.5	.4
281	Industrial chemicals.....	3.5	1.7	1.7	4.7	.3	1.6	3.8	.4	-	.1
2819	Miscellaneous industrial inorganic chemicals.....	2.1	6.1	.2	-	.1	-	.2	-	.3	.1
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	.2	2.3	2.9	1.4	7.8	2.3	6.7	.1	1.8	.3
283	Drugs and medicines (including biological products, medicinal chemicals, botanical products, and pharmaceutical preparations).....	.4	.4	.3	.6	1.3	.3	8.7	1.4	.3	.9
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	1.2	4.5	.7	2.9	.4	1.1	2.4	.1	5.4	.6
2841	Soap and other detergents (except specialty cleansers).....	1.8	5.0	.3	3.3	.1	.4	1.7	.1	8.1	.5
2844	Perfumes, cosmetics, and other toilet preparations.....	.2	3.5	1.7	2.2	.7	2.3	3.8	.2	.2	.5
285	Paints, varnishes, lacquers, enamels, and allied products.....	2.0	.7	.5	.5	2.5	-	1.4	-	-	.2
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	2.1	.8	.5	.5	1.8	-	1.5	-	-	.1
289	Miscellaneous chemical products.....	1.2	4.4	.5	1.0	.3	.3	3.8	.4	.1	.3
2899	Chemical products, n.e.c.....	1.3	5.1	.6	1.2	.4	.3	4.1	.5	-	.3
29	Petroleum and coal products.....	.8	1.1	-	.5	.1	-	-	-	-	-
30	Rubber and miscellaneous plastics products.....	.3	1.9	1.1	1.4	2.4	.3	3.3	.2	1.5	2.1
307	Miscellaneous plastic products.....	.2	2.3	1.3	1.1	1.5	.3	2.4	.1	1.5	.9
32	Stone, clay, and glass products.....	3.0	6.6	.6	.7	1.0	.4	2.2	.5	.9	.5
329	Abrasives, asbestos, and miscellaneous nonmetallic mineral products.....	3.0	4.5	.1	.8	1.4	.2	.1	.4	.2	.4
33	Primary metal products.....	4.1	2.2	1.0	1.8	3.4	.5	1.4	1.0	.1	.9
333	Nonferrous metals primary smelter products (slab, ingot, pig, etc., and residues).....	6.3	2.9	.5	1.5	4.5	.6	-	1.7	-	.2
335	Nonferrous metal basic shapes.....	1.9	1.5	1.5	2.1	1.6	.5	2.8	.4	.3	1.7
3357	Nonferrous wire (including insulated wire).....	1.3	.8	1.7	1.5	2.3	.5	3.8	.6	.5	2.1

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									Sampling variability code ³
		19	20	21	22	23	24	25	30	50	
	Total.....	0.7	0.4	0.5	0.1	0.1	0.5	1.3	9.1	19.1	
20	Food and kindred products.....	.4	.2	1.4	-	-	.6	1.6	13.6	13.8	c
208	Beverages and flavoring extracts.....	-	.2	-	-	-	.4	.2	19.3	27.6	b
209	Miscellaneous food preparations and kindred products.....	.8	.1	2.1	-	-	.8	3.2	12.0	11.2	d
23	Apparel, including knit apparel, and other finished textile products.....	-	.9	.1	.4	.2	.6	1.2	24.2	10.2	e
25	Furniture and fixtures.....	.3	2.2	.2	.2	.8	1.1	.2	14.8	21.3	e
251	Household and office furniture.....	-	.8	.2	.2	.2	-	.1	15.0	22.9	e
26	Pulp, paper, and allied products.....	.1	.3	.2	-	-	.7	.4	8.8	11.9	d
264	Converted paper and paperboard products (except containers and boxes).....	.2	-	-	.1	-	1.9	.1	16.8	5.8	d
265	Containers, boxes, and related products, paperboard, fiberboard, and pulpboard.....	.1	.4	.3	-	-	.4	.5	4.1	13.3	d
2651	Containers and boxes, paperboard, fiberboard, and pulpboard.....	.1	.4	.3	-	-	.5	.6	4.2	12.7	d
28	Chemicals and allied products.....	.6	.9	.7	.1	.2	.6	2.4	14.5	13.4	b
281	Industrial chemicals.....	.2	-	.1	.1	-	.1	.4	5.1	19.4	d
2819	Miscellaneous industrial inorganic chemicals.....	-	-	.5	.4	-	.4	.3	1.7	16.6	b
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	.2	-	1.8	.1	.1	.2	.3	14.2	11.1	c
283	Drugs and medicines (including biological products, medicinal chemicals, botanical products, and pharmaceutical preparations).....	1.2	2.2	.3	.1	.8	1.4	17.1	12.4	3.4	d
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	.4	1.4	.5	.4	.2	.8	1.3	24.4	7.5	c
2841	Soap and other detergents (except specialty cleansers).....	-	1.7	-	.1	.1	1.0	1.8	16.3	6.2	c
2844	Perfumes, cosmetics, and other toilet preparations.....	.2	.9	1.5	1.0	.3	.4	.2	41.1	10.3	e
285	Paints, varnishes, lacquers, enamels, and allied products.....	2.4	.4	3.0	.1	.2	1.7	.6	30.4	12.3	b
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	2.5	.4	3.1	.1	.2	1.8	.5	31.1	12.5	b
289	Miscellaneous chemical products.....	.4	2.0	.4	-	.1	.6	.7	12.5	18.0	c
2899	Chemical products, n.e.c.....	.6	2.5	.5	-	-	.7	.3	14.0	18.0	c
29	Petroleum and coal products.....	-	-	.3	-	-	-	-	1.9	28.8	b
30	Rubber and miscellaneous plastics products.....	.2	1.9	.2	.6	.5	1.0	1.3	16.6	27.4	b
307	Miscellaneous plastic products.....	-	.7	.1	.8	.6	.9	1.0	17.5	27.4	b
32	Stone, clay, and glass products.....	2.8	-	.1	-	.2	.1	.4	8.3	20.3	e
329	Abrasives, asbestos, and miscellaneous nonmetallic mineral products.....	4.2	-	-	-	.3	-	-	6.9	22.6	e
33	Primary metal products.....	.5	.5	.2	.6	.1	.7	2.0	7.1	14.8	a
333	Nonferrous metals primary smelter products (slab, ingot, pig, etc., and residues).....	-	.8	-	.4	-	-	1.7	2.5	13.1	b
335	Nonferrous metal basic shapes.....	1.1	.2	.5	.9	.2	1.5	2.7	11.3	15.9	b
3357	Nonferrous wire (including insulated wire).....	1.7	.3	.8	1.5	.4	2.6	4.5	15.6	17.2	c

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Tons (thous.)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4 ²	5	6	7	8
33574	Wire and cable, insulated, enameled or covered.....	306	100.0	3.0	0.8	20.7	7.1	5.0	0.8	0.3	-
336	Nonferrous and nonferrous base alloy castings.....	36	100.0	7.9	5.0	7.0	15.0	3.4	2.9	.5	0.3
34	Fabricated metal products.....	1,175	100.0	2.9	3.8	31.6	14.1	8.9	1.0	.5	.4
342	Cutlery, hand tools, and general hardware.....	42	100.0	2.1	.7	25.3	23.9	2.4	3.1	1.3	.2
344	Structural and miscellaneous metal products.....	375	100.0	.8	2.3	53.0	6.1	13.1	-	-	.3
346	Metal stampings.....	109	100.0	2.9	2.1	21.7	20.3	13.7	.2	.9	.1
349	Miscellaneous fabricated metal products.....	90	100.0	8.0	4.6	4.7	6.1	5.1	.8	.9	.3
35	Machinery, except electrical.....	336	100.0	2.3	1.8	7.5	3.1	3.3	.6	.6	.4
356	General industrial machinery and equipment.....	68	100.0	.9	2.2	6.0	1.6	2.2	1.0	.8	1.5
359	Miscellaneous machinery and parts (except electrical).....	38	100.0	2.8	4.9	22.7	8.9	3.4	.2	.9	.3
35999	Machinery and parts, n.e.c. (except electrical).....	37	100.0	2.9	5.0	23.3	9.3	1.6	.2	1.0	.3
36	Electrical machinery and equipment...	660	100.0	9.1	1.2	3.2	4.7	2.8	1.0	.1	.2
362	Electrical industrial apparatus.....	22	100.0	2.2	1.9	6.8	12.1	2.7	.2	.8	.4
363	Household appliances.....	4	100.0	1.7	.4	5.7	.9	2.7	2.0	.3	.1
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records..	130	100.0	8.8	3.5	5.1	2.7	7.2	1.8	.1	.1
366	Communication equipment.....	43	100.0	10.0	2.1	3.4	-	2.3	1.9	-	.4
367	Electronic components or accessories.	15	100.0	2.0	5.3	6.9	9.4	1.8	.8	.8	-
3679	Miscellaneous electronic components and accessories.....	9	100.0	3.2	7.0	7.2	13.5	1.1	-	1.0	-
38	Instruments, photographic goods, optical goods, watches, and clocks..	96	100.0	3.2	1.7	7.8	8.2	10.3	1.9	.1	.2
382	Measuring, controlling, and indicating instruments.....	16	100.0	3.2	1.8	13.3	2.3	2.9	.6	.1	-
384	Surgical, medical, and dental instruments and supplies.....	36	100.0	2.1	1.4	5.5	7.6	5.2	3.6	.2	.1
39	Miscellaneous products of manufacturing.....	126	100.0	.4	.5	3.9	.3	11.6	.1	50.5	.1

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15	16	17	18
33574	Wire and cable, insulated, enameled or covered.....	0.3	0.8	1.6	1.5	3.0	0.5	4.2	0.8	0.6	2.9
336	Nonferrous and nonferrous base alloy castings.....	.8	2.0	3.1	1.3	8.0	-	6.1	.6	.1	.4
34	Fabricated metal products.....	1.4	1.6	1.9	1.6	.7	.6	1.8	.3	.8	1.1
342	Cutlery, hand tools, and general hardware.....	.4	.7	3.3	1.2	3.7	1.1	1.6	.1	.3	.3
344	Structural and miscellaneous metal products.....	.2	.2	1.3	.2	.1	-	1.4	.4	-	-
346	Metal stampings.....	4.1	1.4	.3	.7	.3	-	1.3	.7	1.7	.9
349	Miscellaneous fabricated metal products.....	2.9	.7	7.3	.2	.2	-	7.2	.1	5.6	6.1
35	Machinery, except electrical.....	.4	2.7	2.2	1.4	4.8	.3	4.5	.2	.6	.5
356	General industrial machinery and equipment.....	.9	5.5	3.4	4.0	20.4	.5	5.0	.8	2.5	1.3
359	Miscellaneous machinery and parts (except electrical).....	.1	.4	5.1	.1	2.4	.3	6.6	.1	.3	.3
35999	Machinery and parts, n.e.c. (except electrical).....	.1	.1	5.4	-	2.5	.1	6.9	.1	.3	.2
36	Electrical machinery and equipment....	1.1	.8	4.8	1.0	3.4	5.7	5.6	.5	1.6	.5
362	Electrical industrial apparatus.....	.1	.4	-	5.9	1.1	.6	2.6	.6	.2	.2
363	Household appliances.....	.3	2.0	1.3	.6	3.6	2.2	4.3	-	.4	3.4
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records..	1.6	2.0	4.4	1.0	4.4	1.5	5.3	1.4	2.6	.8
366	Communication equipment.....	.3	2.6	.3	1.3	4.7	.3	6.4	1.6	1.8	.9
367	Electronic components or accessories..	1.2	1.9	.6	.2	.4	.5	8.9	.3	.3	-
3679	Miscellaneous electronic components and accessories.....	.1	2.5	.1	.2	.7	.5	.5	.6	.4	-
38	Instruments, photographic goods, optical goods, watches, and clocks...	1.2	5.9	1.1	7.1	1.2	.5	4.3	.4	1.2	.7
382	Measuring, controlling, and indicating instruments.....	2.0	8.8	4.6	1.8	1.7	1.4	4.9	1.7	5.3	.2
384	Surgical, medical, and dental instruments and supplies.....	.1	7.7	.6	2.6	1.3	.4	1.1	.3	.6	.3
39	Miscellaneous products of manufacturing.....	.2	.1	.5	.1	.2	.1	.9	.7	.1	1.0

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									Sampling variability code ³
		19	20	21	22	23	24	25	30	50	
33574	Wire and cable, insulated, enameled or covered.....	2.1	0.4	1.0	2.1	0.5	3.6	6.1	13.7	16.6	d
336	Nonferrous and nonferrous base alloy castings.....	-	-	-	-	-	.1	-	5.0	30.5	d
34	Fabricated metal products.....	.8	.5	.2	-	.1	.9	1.2	8.8	12.5	d
342	Cutlery, hand tools, and general hardware.....	.4	.9	2.1	-	.7	1.4	2.7	10.3	9.8	c
344	Structural and miscellaneous metal products.....	.1	1.1	.1	.1	.1	1.0	.1	2.4	15.6	e
346	Metal stampings.....	.2	.4	1.1	-	-	2.1	1.7	5.9	15.3	c
349	Miscellaneous fabricated metal products.....	1.0	-	.3	-	-	.2	.2	25.1	12.4	e
35	Machinery, except electrical.....	.2	2.8	.4	.3	-	1.4	5.3	17.8	34.6	c
356	General industrial machinery and equipment.....	.3	.1	.1	.9	.1	1.2	2.8	18.9	15.1	c
359	Miscellaneous machinery and parts (except electrical).....	1.6	.3	.5	.1	-	6.6	10.9	11.1	9.1	d
35999	Machinery and parts, n.e.c. (except electrical).....	1.7	.3	.5	.1	-	7.0	10.7	11.2	9.2	d
36	Electrical machinery and equipment.....	9.5	1.0	1.2	.5	.3	.6	7.6	17.7	14.3	e
362	Electrical industrial apparatus.....	.1	-	-	.1	.1	1.1	1.9	13.0	44.9	c
363	Household appliances.....	2.4	4.0	.2	-	.2	2.7	9.0	18.8	30.8	c
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records..	3.0	1.9	.9	.1	.7	.8	7.3	27.4	3.6	d
366	Communication equipment.....	-	.1	.8	2.4	1.0	.7	2.9	33.4	18.4	d
367	Electronic components or accessories..	.8	.1	.3	.1	.1	.5	10.6	20.9	25.3	d
3679	Miscellaneous electronic components and accessories.....	-	-	.4	.1	.1	.7	6.2	24.7	29.2	e
38	Instruments, photographic goods, optical goods, watches, and clocks...	3.2	2.0	.4	.3	.1	1.3	1.9	24.0	9.8	c
382	Measuring, controlling, and indicating instruments.....	.4	.7	1.3	.6	-	2.4	5.0	20.7	12.3	e
384	Surgical, medical, and dental instruments and supplies.....	7.6	.5	.2	.5	.1	1.1	2.0	38.0	9.3	d
39	Miscellaneous products of manufacturing.....	4.8	1.0	.1	.4	.1	11.2	.5	8.5	2.1	e

¹See description of production areas on page 313.²Includes only those shipments that originated in one city in this area and terminated in another city in this area.³Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 5. Ton-Miles of Shipments—Production Area Destination and Commodity: 1963

TCC code	Commodity	Ton-miles (millions)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4 ²	5	6	7	8
	Total.....	6,647	100.0	2.5	2.4	1.7	1.0	2.5	1.0	0.3	0.6
20	Food and kindred products.....	1,040	100.0	3.4	.8	.9	.8	2.7	.8	.1	2.2
208	Beverages and flavoring extracts.....	139	100.0	4.2	3.1	2.5	.3	3.5	1.4	.2	.9
209	Miscellaneous food preparations and kindred products.....	673	100.0	3.9	.5	.5	.4	.9	.8	.1	-
23	Apparel, including knit apparel, and other finished textile products.....	21	100.0	4.8	-	.9	.7	1.1	.6	-	.3
25	Furniture and fixtures.....	140	100.0	5.2	.7	1.1	.2	2.4	.7	.2	.6
251	Household and office furniture.....	102	100.0	4.7	1.0	1.5	.2	3.0	1.0	.3	.8
26	Pulp, paper, and allied products.....	176	100.0	1.3	1.1	2.9	2.0	1.8	1.8	.5	.4
264	Converted paper and paperboard products (except containers and boxes).....	52	100.0	2.5	1.6	3.0	.6	2.3	3.9	.3	.3
265	Containers, boxes, and related products, paperboard, fiberboard, and pulpboard.....	95	100.0	.9	1.1	3.5	3.0	2.1	1.2	.8	.2
2651	Containers and boxes, paperboard, fiberboard, and pulpboard.....	94	100.0	.9	.9	3.4	2.9	2.1	1.3	.7	.2
28	Chemicals and allied products.....	2,187	100.0	1.7	1.0	.8	.8	2.4	1.2	.1	.3
281	Industrial chemicals.....	433	100.0	2.8	2.3	.8	2.2	6.6	2.4	.2	.3
2819	Miscellaneous industrial inorganic chemicals.....	50	100.0	.7	1.4	1.4	5.1	4.6	2.1	.6	2.3
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	175	100.0	3.2	1.1	1.0	1.0	.6	.3	-	.1
283	Drugs and medicines (including biological products, medicinal chemicals, botanical products, and pharmaceutical preparations).....	449	100.0	.5	.7	.6	.2	.8	.1	-	-
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	660	100.0	1.3	.5	.9	.2	1.1	1.2	.1	.4
2841	Soap and other detergents (except specialty cleansers).....	406	100.0	1.1	.6	1.1	.3	1.7	1.6	.1	.4
2844	Perfumes, cosmetics, and other toilet preparations.....	240	100.0	1.7	.4	.5	-	.2	.4	.2	.5
285	Paints, varnishes, lacquers, enamels, and allied products.....	214	100.0	.7	.4	.9	.3	1.4	.5	-	.4
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	210	100.0	.7	.3	.9	.3	1.4	.5	-	.4
289	Miscellaneous chemical products.....	242	100.0	2.4	.9	.6	1.6	3.4	2.2	.2	1.0
2899	Chemical products, n.e.c.....	205	100.0	1.6	.8	.5	1.2	3.2	2.4	.2	.7
29	Petroleum and coal products.....	883	100.0	1.3	12.0	5.2	2.3	4.9	.4	.6	-
30	Rubber and miscellaneous plastics products.....	77	100.0	.6	.5	.5	.3	1.3	1.4	.1	-
307	Miscellaneous plastic products.....	57	100.0	.6	.6	.6	.4	1.8	1.7	.1	-
32	Stone, clay, and glass products.....	191	100.0	5.1	1.3	3.6	1.9	3.9	.6	.1	1.9
329	Abrasives, asbestos and miscellaneous nonmetallic mineral products.....	108	100.0	6.9	2.1	5.3	3.3	4.3	-	.2	3.4
33	Primary metal products.....	489	100.0	3.8	1.7	1.6	.8	1.3	1.9	.3	.1
333	Nonferrous metals primary smelter products (slab, ingot, pig, etc., and residues).....	155	100.0	2.7	4.4	2.9	1.5	1.6	1.0	.7	-
335	Nonferrous metal basic shapes.....	297	100.0	4.4	.3	1.0	.4	.8	2.6	-	.1
3357	Nonferrous wire (including insulated wire).....	237	100.0	1.4	.3	.7	.3	.7	.2	-	-

See footnotes at end of table.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15	16	17	18
	Total.....	1.1	2.2	2.5	1.7	2.3	1.6	5.5	0.7	2.1	0.9
20	Food and kindred products.....	1.2	1.6	8.8	2.3	4.5	3.2	7.9	.2	.1	.4
208	Beverages and flavoring extracts.....	3.5	2.4	.4	3.0	-	-	.8	.8	-	-
209	Miscellaneous food preparations and kindred products.....	.5	1.5	10.6	2.7	6.6	4.7	8.3	-	.1	.5
23	Apparel, including knit apparel, and other finished textile products.....	.2	-	1.9	.5	1.5	1.5	1.5	-	3.3	1.7
25	Furniture and fixtures.....	1.0	1.5	.6	3.0	3.3	.5	2.0	.3	.2	.3
251	Household and office furniture.....	1.4	1.8	.9	4.1	4.1	.4	2.6	.3	.2	.4
26	Pulp, paper, and allied products.....	.5	2.6	1.0	.7	.9	.7	3.0	.2	7.3	1.7
264	Converted paper and paperboard products (except containers and boxes).....	1.7	3.0	.1	1.6	-	.2	7.8	-	-	.1
265	Containers, boxes, and related products, paperboard, fiberboard, and pulpboard.....	-	2.7	1.8	.4	1.6	.5	1.4	.5	.2	3.0
2651	Containers and boxes, paperboard, fiberboard, and pulpboard.....	-	2.4	1.9	.4	1.6	.5	1.4	.5	.2	3.1
28	Chemicals and allied products.....	1.0	1.9	1.2	2.3	1.6	1.7	7.8	.8	4.2	.8
281	Industrial chemicals.....	3.3	2.3	3.2	7.1	.6	4.3	13.3	1.4	.2	.5
2819	Miscellaneous industrial inorganic chemicals.....	2.9	11.8	.4	-	.5	-	.9	-	2.0	.6
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	.1	1.9	3.0	1.1	10.6	3.6	13.2	.2	5.1	.7
283	Drugs and medicines (including biological products, medicinal chemicals, botanical products, and pharmaceutical preparations).....	.1	.2	.1	.3	.9	.2	8.6	1.4	.4	1.1
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	.4	2.6	.6	1.9	.4	1.3	3.6	.2	12.1	1.1
2841	Soap and other detergents (except specialty cleansers).....	.6	3.1	.2	2.3	.1	.6	2.8	.2	19.2	1.0
2844	Perfumes, cosmetics, and other toilet preparations.....	.1	2.0	1.2	1.3	.6	2.4	5.2	.3	.4	.9
285	Paints, varnishes, lacquers, enamels, and allied products.....	.8	.4	.4	.4	3.0	.1	2.4	.1	-	.3
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	.8	.5	.4	.4	2.2	.1	2.4	.1	-	.3
289	Miscellaneous chemical products.....	.6	4.0	.7	1.0	.6	.5	8.9	1.0	.3	.7
2899	Chemical products, n.e.c.....	.6	4.3	.8	1.2	.6	.6	9.1	1.1	-	.9
29	Petroleum and coal products.....	1.3	2.8	-	1.3	.2	-	.2	.2	-	-
30	Rubber and miscellaneous plastics products.....	.1	1.0	.8	.9	2.4	.3	4.7	.2	3.1	3.7
307	Miscellaneous plastic products.....	.1	1.4	1.0	.7	1.6	.4	3.9	.1	3.5	1.7
32	Stone, clay, and glass products.....	2.5	6.9	.9	.9	1.8	.8	6.0	1.4	3.3	1.7
329	Abrasives, asbestos, and miscellaneous nonmetallic mineral products.....	3.2	6.0	.2	1.0	3.0	.4	.3	1.3	.8	1.7
33	Primary metal products.....	2.5	2.1	1.3	1.9	5.3	1.0	3.3	2.4	.5	2.4
333	Nonferrous metals primary smelter products (slab, ingot, pig, etc., and residues).....	6.0	4.2	.9	2.4	10.9	1.7	-	6.3	.2	.7
335	Nonferrous metal basic shapes.....	.9	1.0	1.4	1.6	1.9	.7	4.8	.7	.7	3.6
3357	Nonferrous wire (including insulated wire).....	.4	.3	1.2	.8	2.0	.5	4.8	.8	.8	3.2

See footnotes at end of table.

TABLE 5. Ton-Miles of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued								
		19	20	21	22	23	24	25	30	50
	Total.....	1.8	2.2	2.8	0.7	0.8	4.5	12.4	21.8	20.4
20	Food and kindred products.....	1.0	.8	6.4	-	-	4.9	13.1	18.5	13.4
208	Beverages and flavoring extracts.....	-	1.5	-	-	-	6.2	3.4	33.9	28.0
209	Miscellaneous food preparations and kindred products.....	1.5	.3	6.9	-	-	5.1	18.9	14.5	10.2
23	Apparel, including knit apparel, and other finished textile products.....	-	2.5	.2	1.5	.8	3.0	6.2	47.2	18.1
25	Furniture and fixtures.....	.7	8.4	.8	.7	5.1	7.8	1.7	33.9	17.1
251	Household and office furniture.....	-	3.7	1.1	1.0	1.4	-	.5	41.6	22.0
26	Pulp, paper, and allied products.....	.4	1.7	1.4	.2	.2	8.7	4.7	30.2	22.1
264	Converted paper and paperboard products (except containers and boxes).....	.5	.2	-	.5	-	16.9	1.0	45.8	6.1
265	Containers, boxes, and related products, paperboard, fiberboard, and pulpboard.....	.4	3.1	2.5	.1	.4	6.9	8.2	20.0	33.5
2651	Containers and boxes, paperboard, fiberboard, and pulpboard.....	.4	3.2	2.5	.2	.4	7.0	8.3	20.3	33.3
28	Chemicals and allied products.....	1.2	3.3	2.7	.6	1.1	4.4	16.2	27.5	11.4
281	Industrial chemicals.....	.6	-	.6	.5	-	1.9	5.3	17.3	20.0
2819	Miscellaneous industrial inorganic chemicals.....	-	-	4.7	4.4	-	7.3	5.8	7.8	32.7
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	.5	-	6.8	.4	.8	1.6	2.3	27.9	12.9
283	Drugs and medicines (including biological products, medicinal chemicals, botanical products, and pharmaceutical preparations).....	1.3	4.2	.6	.2	2.8	4.9	58.3	8.8	2.7
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	.7	4.3	1.5	1.3	1.0	4.4	6.9	43.0	7.0
2841	Soap and other detergents (except specialty cleansers).....	.1	5.6	.1	.2	.8	6.0	10.1	36.0	4.1
2844	Perfumes, cosmetics, and other toilet preparations.....	.4	2.3	4.0	3.1	1.3	2.0	.9	55.6	12.1
285	Paints, varnishes, lacquers, enamels, and allied products.....	4.3	1.1	10.1	.3	.9	10.6	3.4	46.9	9.9
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	4.4	1.2	10.3	.3	1.0	10.6	3.2	47.3	10.0
289	Miscellaneous chemical products.....	1.1	9.3	1.9	-	.6	4.9	5.9	21.3	24.4
2899	Chemical products, n.e.c.....	1.3	11.0	2.2	-	.2	5.8	2.1	23.4	24.2
29	Petroleum and coal products.....	.1	-	3.9	-	-	-	.1	9.3	53.9
30	Rubber and miscellaneous plastics products.....	.3	5.6	.7	2.1	2.7	5.4	6.6	27.3	27.4
307	Miscellaneous plastic products.....	-	2.1	.2	2.8	3.2	5.1	5.4	31.5	29.5
32	Stone, clay, and glass products.....	8.0	.2	.4	.2	1.6	.9	3.7	20.2	20.2
329	Abrasives, asbestos, and miscellaneous nonmetallic mineral products.....	14.2	-	.1	-	2.9	.4	-	20.3	18.7
33	Primary metal products.....	1.2	2.2	1.0	3.1	.8	6.0	16.1	17.2	18.2
333	Nonferrous metals primary smelter products (slab, ingot, pig, etc., and residues).....	-	5.9	-	3.0	-	.2	20.7	7.4	14.7
335	Nonferrous metal basic shapes.....	2.0	.5	1.7	3.6	1.3	9.5	15.7	19.8	19.0
3357	Nonferrous wire (including insulated wire).....	2.2	.6	2.1	4.5	1.7	11.9	19.6	21.9	17.1

See footnotes at end of table.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**—Continued

TCC code	Commodity	Ton-miles (millions)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4 ²	5	6	7	8
33574	Wire and cable, insulated, enameled or covered.....	199	100.0	0.9	0.1	0.6	0.3	0.5	0.2	-	-
336	Nonferrous and nonferrous base alloy castings.....	11	100.0	5.2	1.4	.6	.8	.6	1.4	0.1	0.1
34	Fabricated metal products.....	295	100.0	2.2	1.3	3.3	1.2	2.4	.7	.1	.2
342	Cutlery, hand tools, and general hardware.....	15	100.0	1.0	.1	1.0	1.4	.5	1.5	.3	.1
344	Structural and miscellaneous metal products.....	47	100.0	1.4	1.8	11.4	.9	6.2	-	-	.3
346	Metal stampings.....	31	100.0	1.8	.7	1.7	1.4	4.2	.1	.3	-
349	Miscellaneous fabricated metal products.....	45	100.0	2.9	.9	.2	.2	.7	.3	.1	.1
35	Machinery, except electrical.....	244	100.0	.6	.2	.2	.2	.3	.1	.1	.1
356	General industrial machinery and equipment.....	41	100.0	.3	.4	.2	.1	.3	.3	.1	.4
359	Miscellaneous machinery and parts (except electrical).....	28	100.0	.7	.5	.7	.2	.4	-	.1	-
35999	Machinery and parts, n.e.c. (except electrical).....	26	100.0	.8	.5	.7	.2	.2	-	.1	-
36	Electrical machinery and equipment....	490	100.0	2.5	.2	.1	.2	.3	.2	-	-
362	Electrical industrial apparatus.....	11	100.0	.8	.2	.5	.6	.3	.1	.1	.1
363	Household appliances.....	3	100.0	.3	-	.1	-	.2	.4	-	-
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records..	97	100.0	2.2	.5	.2	.1	.7	.4	-	-
366	Communication equipment.....	31	100.0	2.8	.3	.1	-	.3	.4	-	.1
367	Electronic components or accessories..	11	100.0	.5	.6	.3	.2	.2	.2	.1	-
3679	Miscellaneous electronic components and accessories.....	5	100.0	1.0	.9	.3	.4	.1	-	.1	-
38	Instruments, photographic goods, optical goods, watches, and clocks...	59	100.0	1.0	.2	.3	.4	1.3	.5	-	-
382	Measuring, controlling, and indicating instruments.....	12	100.0	.8	.2	.2	.1	.3	.1	-	-
384	Surgical, medical, and dental instruments and supplies.....	32	100.0	.5	.2	.2	.2	.4	.6	-	-
39	Miscellaneous products of manufacturing.....	66	100.0	.1	.1	.3	-	1.7	-	7.3	-

See footnotes at end of table.

TABLE 5. Ton-Miles of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15	16	17	18
33574	Wire and cable, insulated, enameled or covered.....	0.1	0.3	1.0	0.7	2.2	0.4	4.6	0.9	0.9	3.8
336	Nonferrous and nonferrous base alloy castings.....	.5	1.7	3.9	1.2	12.8	-	13.8	1.5	.5	1.2
34	Fabricated metal products.....	.8	1.8	2.9	1.9	1.3	1.2	5.2	.7	3.1	3.6
342	Cutlery, hand tools, and general hardware.....	.2	.6	3.6	1.0	5.0	1.7	3.1	.2	.8	.6
344	Structural and miscellaneous metal products.....	.2	.5	3.7	.6	.3	.2	8.1	2.5	-	-
346	Metal stampings.....	1.9	1.4	.5	.8	.4	.1	3.4	2.0	5.9	2.9
349	Miscellaneous fabricated metal products.....	.8	.3	5.7	.1	.2	-	10.2	.2	11.4	10.5
35	Machinery, except electrical.....	.1	1.0	1.1	.6	3.2	.2	4.3	.2	.8	.6
356	General industrial machinery and equipment.....	.2	2.6	2.2	2.0	16.4	.4	5.8	.9	4.2	1.8
359	Miscellaneous machinery and parts (except electrical).....	-	.1	2.5	-	1.6	.2	6.4	.1	.5	.3
35999	Machinery and parts, n.e.c. (except electrical).....	-	-	2.6	-	1.6	.1	6.7	.1	.4	.2
36	Electrical machinery and equipment...	.3	.3	2.2	.4	2.2	4.2	5.2	.5	2.2	.5
362	Electrical industrial apparatus.....	-	.2	-	3.5	1.1	.6	3.5	.8	.3	.3
363	Household appliances.....	-	.6	.5	.1	1.7	1.3	3.1	-	.4	3.0
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records.	.3	.7	2.3	.4	2.9	1.1	5.0	1.4	3.5	.9
366	Communication equipment.....	.1	1.0	.2	.6	3.1	.2	6.1	1.6	2.5	1.1
367	Electronic components or accessories.	.3	.8	.3	.1	.3	.4	8.8	.3	.4	.1
3679	Miscellaneous electronic components and accessories.....	-	1.2	.1	.1	.5	.4	.6	.6	.7	-
38	Instruments, photographic goods, optical goods, watches, and clocks..	.3	2.7	.7	3.6	.9	.4	4.8	.5	2.0	1.0
382	Measuring, controlling, and indicating instruments.....	.5	3.4	2.4	.8	1.1	1.0	4.7	1.6	7.3	.3
384	Surgical, medical, and dental instruments and supplies.....	-	2.5	.3	.9	.7	.2	.9	.3	.7	.3
39	Miscellaneous products of manufacturing.....	.1	.1	.4	.1	.2	.1	1.2	1.0	.2	1.7

See footnotes at end of table.

TABLE 5. Ton-Miles of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued								
		19	20	21	22	23	24	25	30	50
33574	Wire and cable, insulated, enameled or covered.....	2.4	0.8	2.2	5.3	2.0	14.1	22.7	16.9	16.1
336	Nonferrous and nonferrous base alloy castings.....	-	-	-	-	-	.5	-	8.5	43.7
34	Fabricated metal products.....	2.3	2.7	1.3	.2	1.0	8.7	11.8	24.2	13.9
342	Cutlery, hand tools, and general hardware.....	.7	3.3	8.6	.2	5.0	10.0	18.4	18.4	12.7
344	Structural and miscellaneous metal products.....	.4	11.4	.8	1.0	1.0	20.9	1.2	11.7	13.5
346	Metal stampings.....	.7	2.0	5.4	.3	-	18.7	14.6	13.6	15.2
349	Miscellaneous fabricated metal products.....	1.4	-	.7	-	-	.9	1.2	39.8	11.2
35	Machinery, except electrical.....	.3	5.3	.7	.7	.1	5.0	17.7	20.2	36.1
356	General industrial machinery and equipment.....	.3	.3	.2	2.4	.2	5.2	11.3	20.4	21.1
359	Miscellaneous machinery and parts (except electrical).....	1.7	.6	.9	.2	-	23.6	36.8	15.9	6.0
35999	Machinery and parts, n.e.c. (except electrical).....	1.8	.5	1.0	.2	-	24.5	35.7	16.1	6.0
36	Electrical machinery and equipment....	9.2	1.9	2.3	1.2	1.1	2.1	24.8	22.0	13.9
362	Electrical industrial apparatus.....	.1	-	-	.5	.5	5.6	9.0	19.3	52.0
363	Household appliances.....	1.7	5.5	.3	-	.4	6.9	22.3	13.1	38.1
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records..	2.9	3.5	1.7	.2	2.2	2.7	23.7	38.2	2.3
366	Communication equipment.....	-	.2	1.5	5.4	3.3	2.3	9.7	39.1	18.0
367	Electronic components or accessories..	.9	.1	.7	.2	.3	1.7	36.7	27.5	18.0
3679	Miscellaneous electronic components and accessories.....	-	-	.8	.3	.6	2.7	24.2	41.5	22.9
38	Instruments, photographic goods, optical goods, watches, and clocks...	3.9	4.4	1.0	.7	.3	5.3	7.6	48.5	7.7
382	Measuring, controlling, and indicating instruments.....	.4	1.4	2.4	1.3	.1	8.2	16.3	35.1	10.0
384	Surgical, medical, and dental instruments and supplies.....	6.4	.9	.3	.8	.4	3.2	5.5	68.6	5.0
39	Miscellaneous products of manufacturing.....	6.8	2.7	.2	1.2	.6	54.7	2.4	14.5	2.3

¹See description of production areas on page 313.²Includes only those shipments that originated in one city in this area and terminated in another city in this area.

Production Area 5

Production Area 5 consists of three standard metropolitan statistical areas: Philadelphia, Pa.-N.J.; Wilmington, Del.-N.J.-Md.; and Trenton, N.J. .

Data are based on 322 plants from which 67,847 shipping documents were sampled. The sampling variability on the estimated 67.8 million tons shipped from Production Area 5 is ± 6.7 percent.

Major commodity groups shipped from Production Area 5 and their area of destinations are summarized in table A below.

Table A.—DISTRIBUTION OF TONS OF COMMODITIES SHIPPED FROM PRODUCTION AREA 5, BY AREA OF DESTINATION

TCC code	Commodity class	Total tons (thousands)	Percent distribution by destination area			
			Production Area 5 ¹	Other production areas	Other SMSA's	Balance of country
	Total.....	² 67,847	31.4	54.4	4.6	9.6
20	Food and kindred products.....	4,109	8.7	54.8	15.4	21.1
212*	Cigars.....	25	6.5	54.6	33.1	5.8
22	Basic textiles.....	448	2.7	27.0	3.3	67.0
23	Apparel, including knit apparel, and other finished textile products.....	334	2.3	56.3	12.7	28.7
26	Pulp, paper, and allied products.....	1,976	20.3	60.8	4.8	14.1
28	Chemicals and allied products.....	4,314	15.8	49.3	12.1	22.8
29	Petroleum and coal products.....	47,082	39.1	53.5	2.0	5.4
30	Rubber and miscellaneous plastics products...	696	11.9	53.8	19.3	15.0
32	Stone, clay, and glass products.....	826	14.9	65.1	9.3	10.7
33	Primary metal products.....	4,365	14.2	72.1	3.5	10.2
34	Fabricated metal products.....	1,164	13.4	49.3	11.0	26.3
35	Machinery, except electrical.....	433	7.9	36.5	21.6	34.0
36	Electrical machinery and equipment.....	216	6.5	49.9	20.3	23.3
37	Transportation equipment.....	946	12.4	54.6	15.7	17.3
38	Instruments, photographic goods, optical goods, watches, and clocks.....	11	8.2	46.4	25.9	19.5

*TCC 21 not shown.

¹Includes only those shipments that originated in one city in this area and terminated in another city in this area.

²Includes commodity classes not shown separately.

TABLE 1. Tons of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by means of transport								Sampling variability code ¹
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Un- known	
	Total.....	67,847	100.0	12.0	20.6	8.9	0.1	58.0	0.4	-	
20	Food and kindred products.....	4,109	100.0	23.0	32.9	43.7	-	.3	.1	-	c
207	Confectionery and related products...	213	100.0	1.6	92.8	.5	-	4.9	.1	0.1	d
212	Cigars.....	25	100.0	12.8	61.4	-	-	-	25.7	.1	d
22	Basic textiles.....	448	100.0	1.4	55.4	40.5	.4	.4	.2	1.7	e
228	Thread and yarn (cotton, wool, silk, and man-made fiber).....	98	100.0	4.9	85.4	8.0	1.4	-	.3	-	d
23	Apparel, including knit apparel, and other finished textile products....	334	100.0	.5	53.7	.6	1.2	-	43.3	.7	d
231	Men's, youths', and boys' clothing...	24	100.0	.6	66.3	.1	1.6	-	31.3	.1	d
26	Pulp, paper, and allied products.....	1,976	100.0	12.4	58.3	28.6	-	-	.7	-	d
28	Chemicals and allied products.....	4,314	100.0	27.6	52.4	10.0	-	9.4	.6	-	b
281	Industrial chemicals.....	2,576	100.0	31.0	42.6	12.0	-	14.4	-	-	b
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	528	100.0	22.3	66.1	4.2	-	3.5	3.9	-	c
28211	Plastic materials and plasticizers, synthetic resins, and nonvulcanizable elastomers.....	479	100.0	16.3	71.9	3.7	-	3.8	4.3	-	c
283	Drugs and medicines (including biological products, medicinal chemicals, botanical products, and pharmaceutical preparations).....	181	100.0	13.1	83.5	.9	.2	1.4	.7	.2	c
289	Miscellaneous chemical products.....	325	100.0	30.9	57.9	10.2	-	-	1.0	-	d
2899	Chemical products, n.e.c.....	279	100.0	29.4	61.1	9.3	-	-	.2	-	d
29	Petroleum and coal products.....	47,082	100.0	3.5	8.8	4.8	.1	82.8	-	-	b
291	Products of petroleum refining.....	46,781	100.0	3.3	8.6	4.8	.1	83.2	-	-	b
2911	Products of petroleum refining (except liquefied petroleum gases and petroleum coke and breeze).....	45,214	100.0	3.1	7.8	2.8	.1	86.2	-	-	b
30	Rubber and miscellaneous plastics products.....	696	100.0	15.0	71.9	9.1	.1	1.4	2.5	-	d
307	Miscellaneous plastic products.....	300	100.0	12.1	60.5	18.9	.2	3.2	5.1	-	a
30714	Unsupported vinyl and polyethylene film and sheeting.....	79	100.0	24.5	69.9	5.5	.1	-	-	-	b
32	Stone, clay, and glass products.....	826	100.0	6.4	70.7	21.9	.2	-	.5	.3	d
33	Primary metal products.....	4,365	100.0	58.3	37.5	3.5	-	.6	.1	-	a
331	Steel works and rolling mill products	3,808	100.0	64.8	31.6	3.0	-	.6	-	-	b
335	Nonferrous metal basic shapes.....	125	100.0	17.8	69.3	9.9	.1	1.8	1.1	-	e
336	Nonferrous and nonferrous base alloy castings.....	14	100.0	-	29.0	66.3	.8	-	3.5	.4	c
34	Fabricated metal products.....	1,164	100.0	39.8	37.4	21.4	.1	.7	.6	-	c
344	Structural and miscellaneous metal products.....	495	100.0	33.3	23.0	43.2	-	-	.4	.1	d
346	Metal stampings.....	139	100.0	28.0	60.2	10.8	.1	.8	.1	-	d
35	Machinery, except electrical.....	433	100.0	29.4	64.4	4.5	.5	-	1.2	-	d
356	General industrial machinery and equipment.....	38	100.0	7.3	86.6	2.1	.8	-	3.0	.2	d
359	Miscellaneous machinery and parts (except electrical).....	67	100.0	5.8	74.6	15.7	1.5	-	2.4	-	e
35999	Machinery and parts, n.e.c. (except electrical).....	65	100.0	5.9	74.3	15.9	1.5	-	2.4	-	e

See footnote at end of table.

TABLE 1. **Tons of Shipments—Means of Transport and Commodity: 1963**—Continued

TCC code	Commodity	Tons (thous.)	Percent distribution by means of transport								Sampling variability code ¹
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown	
36	Electrical machinery and equipment...	216	100.0	24.1	63.1	5.7	1.8	0.7	4.5	0.1	b
361	Electrical transmission and distribution equipment.....	59	100.0	36.6	55.7	3.6	.8	-	3.3	-	d
364	Electric lighting and wiring equipment.....	53	100.0	8.7	81.2	.7	1.1	-	8.3	-	c
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records.	45	100.0	40.2	51.1	.2	4.9	-	3.2	.4	c
37	Transportation equipment.....	946	100.0	43.3	51.9	4.7	-	-	.1	-	c
371	Motor vehicles and motor vehicle equipment.....	915	100.0	44.4	51.9	3.7	-	-	-	-	c
38	Instruments, photographic goods, optical goods, watches, and clocks..	11	100.0	-	81.5	1.5	2.6	.6	13.8	-	c
382	Measuring, controlling, and indicating instruments.....	6	100.0	-	85.5	.3	3.4	1.0	9.8	-	d

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 2. Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Ton-miles (millions)	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
	Total.....	9,247	100.0	30.2	28.8	8.0	0.3	31.0	1.6	0.1
20	Food and kindred products.....	754	100.0	28.8	42.6	28.2	-	.1	.3	-
207	Confectionery and related products.....	87	100.0	3.7	95.3	-	-	1.0	-	-
212	Cigars.....	16	100.0	43.2	30.5	-	-	-	26.2	.1
22	Basic textiles.....	181	100.0	5.9	63.4	26.1	1.8	1.3	.2	1.3
228	Thread and yarn (cotton, wool, silk, and man-made fiber).....	65	100.0	14.9	80.5	.4	4.0	-	.2	-
23	Apparel, including knit apparel, and other finished textile products.....	178	100.0	1.0	41.8	1.5	2.5	-	52.2	1.0
231	Men's, youths', and boys' clothing.....	13	100.0	.9	76.8	-	2.0	-	20.2	.1
26	Pulp, paper, and allied products.....	331	100.0	33.6	48.3	16.9	-	-	1.2	-
28	Chemicals and allied products.....	1,406	100.0	44.1	43.6	6.6	-	5.3	.4	-
281	Industrial chemicals.....	606	100.0	50.9	30.8	10.5	-	7.8	-	-
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	184	100.0	40.9	47.4	3.3	-	6.9	1.3	.2
28211	Plastic materials and plasticizers, synthetic resins, and nonvulcanizable elastomers.....	153	100.0	30.3	56.0	3.7	-	8.2	1.6	.2
283	Drugs and medicines (including biological products, medicinal chemicals, botanical products, and pharmaceutical preparations)	178	100.0	16.8	79.9	.3	.3	2.2	.4	.1
289	Miscellaneous chemical products.....	179	100.0	57.5	36.8	4.3	-	-	1.4	-
2899	Chemical products, n.e.c.....	153	100.0	55.9	39.7	3.8	-	-	.6	-
29	Petroleum and coal products.....	3,705	100.0	14.1	8.6	4.0	.1	73.2	-	-
291	Products of petroleum refining.....	3,602	100.0	12.2	8.2	4.1	.1	75.4	-	-
2911	Products of petroleum refining (except liquefied petroleum gases and petroleum coke and breeze).....	3,480	100.0	11.9	7.5	2.5	.1	78.0	-	-
30	Rubber and miscellaneous plastics products.....	358	100.0	24.1	56.7	12.0	.5	3.6	3.1	-
307	Miscellaneous plastic products.....	164	100.0	28.6	31.5	25.9	.5	7.7	5.8	-
30714	Unsupported vinyl and polyethylene film and sheeting.....	47	100.0	62.0	35.3	2.6	.1	-	-	-
32	Stone, clay, and glass products.....	138	100.0	13.7	69.7	15.2	.1	-	1.2	.1
33	Primary metal products.....	843	100.0	65.3	26.5	1.2	.1	6.4	.5	-
331	Steel works and rolling mill products.....	731	100.0	71.6	20.6	.9	-	6.8	.1	-
335	Nonferrous metal basic shapes.....	48	100.0	31.4	53.9	3.9	.2	6.6	4.0	-
336	Nonferrous and nonferrous base alloy castings.....	4	100.0	-	56.3	36.1	1.9	-	5.6	.1
34	Fabricated metal products.....	374	100.0	46.3	35.2	15.1	.4	2.0	1.0	-
344	Structural and miscellaneous metal products.....	90	100.0	23.5	31.1	43.5	-	-	1.9	-
346	Metal stampings.....	53	100.0	30.5	55.4	13.6	.1	.2	.2	-
35	Machinery, except electrical.....	243	100.0	47.3	48.7	1.2	.6	-	2.2	-
356	General industrial machinery and equipment.....	18	100.0	1.2	91.8	.6	3.6	-	2.7	.1
359	Miscellaneous machinery and parts (except electrical).....	21	100.0	1.3	78.9	9.5	1.3	-	9.0	-
35999	Machinery and parts, n.e.c. (except electrical).....	21	100.0	1.3	78.8	9.8	1.3	-	8.8	-

TABLE 2. **Ton-Miles of Shipments—Means of Transport and Commodity: 1963**—Continued

TCC code	Commodity	Ton- miles (millions)	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Un- known
36	Electrical machinery and equipment.....	151	100.0	40.4	48.5	2.3	2.9	0.1	5.8	-
361	Electrical transmission and distribution equipment.....	48	100.0	51.0	41.0	.9	1.0	-	6.1	-
364	Electric lighting and wiring equipment.....	36	100.0	21.1	65.9	.3	3.1	-	9.6	-
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records.....	41	100.0	55.1	36.5	.1	4.6	-	3.7	-
37	Transportation equipment.....	241	100.0	58.4	37.1	4.1	-	-	.3	0.1
371	Motor vehicles and motor vehicle equipment.	220	100.0	62.7	34.5	2.8	-	-	-	-
38	Instruments, photographic goods, optical goods, watches, and clocks.....	5	100.0	-	73.7	.2	5.6	.5	20.0	-
382	Measuring, controlling, and indicating instruments.....	4	100.0	-	83.2	-	3.7	.8	12.3	-

TABLE 3. Tons of Shipments—Distance and Commodity:
1963

TCC code	Commodity	Tons (thous.)	Percent distribution by distance of shipment								Sampling variability code ¹
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over	
	Total.....	67,847	100.0	68.6	13.6	6.7	6.2	3.6	0.6	0.7	
20	Food and kindred products.....	4,109	100.0	47.5	19.3	20.3	6.7	5.8	.2	.2	c
207	Confectionery and related products...	213	100.0	33.8	6.2	18.9	9.0	26.5	2.5	3.1	d
212	Cigars.....	25	100.0	36.3	4.7	11.8	4.6	20.9	5.2	16.5	d
22	Basic textiles.....	448	100.0	19.5	4.6	5.4	52.8	12.6	.5	4.6	e
228	Thread and yarn (cotton, wool, silk, and man-made fiber).....	98	100.0	19.4	1.7	13.7	5.9	46.8	.9	11.6	d
23	Apparel, including knit apparel, and other finished textile products.....	334	100.0	33.0	2.7	7.7	24.5	14.4	10.1	7.6	d
231	Men's, youths', and boys' clothing...	24	100.0	26.3	10.2	17.5	10.9	17.8	7.1	10.2	d
26	Pulp, paper, and allied products.....	1,976	100.0	55.3	22.5	11.9	3.4	5.2	.3	1.4	d
28	Chemicals and allied products.....	4,314	100.0	35.3	18.9	13.4	11.8	15.0	2.9	2.7	b
281	Industrial chemicals.....	2,576	100.0	43.3	22.7	11.2	10.6	9.7	1.1	1.4	b
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	528	100.0	33.1	8.8	12.9	17.5	24.0	3.0	.7	c
28211	Plastic materials and plasticizers, synthetic resins, and nonvulcanizable elastomers.....	479	100.0	35.3	9.6	14.1	19.0	18.3	3.3	.4	c
283	Drugs and medicines (including biological products, medicinal chemicals, botanical products, and pharmaceutical preparations).....	181	100.0	9.7	1.0	15.9	4.4	36.7	5.4	26.9	c
289	Miscellaneous chemical products.....	325	100.0	21.0	8.3	13.6	20.3	23.8	4.8	8.2	d
2899	Chemical products, n.e.c.....	279	100.0	21.8	7.7	14.5	20.3	22.5	4.9	8.3	d
29	Petroleum and coal products.....	47,082	100.0	80.6	12.7	.9	4.8	.9	.1	-	b
291	Products of petroleum refining.....	46,781	100.0	81.0	12.6	.8	4.8	.8	-	-	b
2911	Products of petroleum refining (except liquefied petroleum gases and petroleum coke and breeze).....	45,214	100.0	81.1	12.5	.7	4.9	.8	-	-	b
30	Rubber and miscellaneous plastics products.....	696	100.0	29.8	7.0	10.0	8.2	33.8	6.6	4.6	d
307	Miscellaneous plastic products.....	300	100.0	23.5	12.6	15.5	10.1	20.9	10.1	7.3	a
30714	Unsupported vinyl and polyethylene film and sheeting.....	79	100.0	23.3	3.3	32.4	3.2	22.2	3.4	12.2	b
32	Stone, clay, and glass products.....	826	100.0	56.7	19.9	11.4	4.1	7.1	.7	.1	d
33	Primary metal products.....	4,365	100.0	38.4	11.5	40.5	4.8	2.9	1.0	.9	a
331	Steel works and rolling mill products	3,808	100.0	36.3	10.6	44.5	4.5	2.2	1.0	.9	b
335	Nonferrous metal basic shapes.....	125	100.0	39.5	10.1	7.2	13.7	20.7	4.9	3.9	e
336	Nonferrous and nonferrous base alloy castings.....	14	100.0	27.8	30.9	18.4	6.5	8.5	7.8	.1	c
34	Fabricated metal products.....	1,164	100.0	42.1	9.1	20.7	10.0	11.3	3.0	3.8	c
344	Structural and miscellaneous metal products.....	495	100.0	54.3	10.3	18.0	11.4	4.9	.6	.5	d
346	Metal stampings.....	139	100.0	21.1	10.7	20.7	16.1	26.0	4.8	.6	d
35	Machinery, except electrical.....	433	100.0	19.1	2.8	24.2	28.9	8.3	5.2	11.5	d
356	General industrial machinery and equipment.....	38	100.0	36.0	8.3	11.4	10.7	20.9	7.7	5.0	d
359	Miscellaneous machinery and parts (except electrical).....	67	100.0	35.5	5.7	40.7	4.6	7.3	.8	5.4	e
35999	Machinery and parts, n.e.c. (except electrical).....	65	100.0	35.9	5.8	40.7	4.4	7.2	.7	5.3	e

See footnote at end of table.

TABLE 3. **Tons of Shipments—Distance and Commodity:**
1963—Continued

TCC code	Commodity	Tons (thous.)	Percent distribution by distance of shipment								Samp- ling vari- ability code ¹
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over	
36	Electrical machinery and equipment...	216	100.0	22.0	9.1	8.7	11.1	26.8	9.2	13.1	b
361	Electrical transmission and distribu- tion equipment.....	59	100.0	21.4	2.3	3.6	17.1	30.8	7.5	17.3	d
364	Electric lighting and wiring equipment.....	53	100.0	16.9	6.8	8.8	13.8	30.4	15.4	7.9	c
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records.	45	100.0	17.8	7.9	9.1	6.3	23.7	13.6	21.6	c
37	Transportation equipment.....	946	100.0	36.8	24.3	9.6	15.2	12.1	1.0	1.0	c
371	Motor vehicles and motor vehicle equipment.....	915	100.0	37.3	25.0	9.5	15.1	11.7	.9	.5	c
38	Instruments, photographic goods, optical goods, watches, and clocks..	11	100.0	27.9	17.3	8.3	15.5	15.0	5.0	11.0	c
382	Measuring, controlling, and indicating instruments.....	6	100.0	22.2	7.0	12.4	16.0	23.8	7.4	11.2	d

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5 ²	6	7	8
	Total.....	67,847	100.0	5.9	0.9	3.4	30.8	31.4	3.7	2.3	1.3
20	Food and kindred products.....	4,109	100.0	4.4	2.5	9.7	7.2	8.7	5.3	4.4	5.2
207	Confectionery and related products...	213	100.0	12.9	2.7	13.5	1.7	1.5	4.8	7.1	.4
212	Cigars.....	25	100.0	1.9	4.1	7.2	5.9	6.5	1.5	1.5	1.3
22	Basic textiles.....	448	100.0	2.8	-	8.7	7.6	2.7	.2	1.0	.2
228	Thread and yarn (cotton, wool, silk, and man-made fiber).....	98	100.0	10.4	-	9.5	2.2	7.3	.1	.2	.3
23	Apparel, including knit apparel, and other finished textile products....	334	100.0	3.1	.5	22.0	4.7	2.3	1.2	.5	.4
231	Men's, youths', and boys' clothing...	24	100.0	4.3	2.6	11.7	3.2	4.0	.4	1.8	1.6
26	Pulp, paper, and allied products.....	1,976	100.0	2.7	3.2	19.1	11.7	20.3	3.6	2.9	5.0
28	Chemicals and allied products.....	4,314	100.0	3.8	2.8	3.4	9.0	15.8	7.5	.8	1.0
281	Industrial chemicals.....	2,576	100.0	1.4	2.0	2.4	10.8	20.6	10.4	.9	.1
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	528	100.0	7.8	4.2	7.3	9.3	13.7	.7	.2	4.7
28211	Plastic materials and plasticizers, synthetic resins, and nonvulcanizable elastomers.....	479	100.0	8.6	4.6	7.9	10.2	14.2	.7	-	5.1
283	Drugs and medicines (including biological products, medicinal chemicals, botanical products, and pharmaceutical preparations).....	181	100.0	2.4	.4	2.1	4.6	.8	1.6	.1	.1
289	Miscellaneous chemical products.....	325	100.0	2.8	3.6	2.0	7.5	7.7	2.9	1.9	.6
2899	Chemical products, n.e.c.....	279	100.0	3.2	3.8	2.1	7.2	7.8	2.7	2.1	.7
29	Petroleum and coal products.....	47,082	100.0	4.1	.1	1.1	40.4	39.1	3.1	2.1	.8
291	Products of petroleum refining.....	46,781	100.0	4.1	.1	1.0	40.7	39.3	3.1	2.2	.8
2911	Products of petroleum refining (except liquefied petroleum gases and petroleum coke and breeze).....	45,214	100.0	4.2	.1	1.1	41.8	39.7	3.1	2.1	.3
30	Rubber and miscellaneous plastics products.....	696	100.0	2.2	3.9	4.3	3.9	11.9	1.5	5.6	.5
307	Miscellaneous plastic products.....	300	100.0	3.9	3.8	7.4	3.9	9.9	1.9	.4	.5
30714	Unsupported vinyl and polyethylene film and sheeting.....	79	100.0	4.9	1.6	6.9	4.4	8.9	.8	.6	1.2
32	Stone, clay, and glass products.....	826	100.0	5.0	5.4	12.6	20.1	14.9	11.3	1.1	2.4
33	Primary metal products.....	4,365	100.0	34.9	2.8	6.1	8.2	14.2	4.2	4.1	2.1
331	Steel works and rolling mill products	3,808	100.0	40.0	2.6	4.7	7.5	14.4	4.4	4.3	2.0
335	Nonferrous metal basic shapes.....	125	100.0	2.0	2.8	11.8	7.0	14.2	1.5	.5	3.9
336	Nonferrous and nonferrous base alloy castings.....	14	100.0	4.8	20.2	.4	10.1	3.3	10.6	1.8	2.0
34	Fabricated metal products.....	1,164	100.0	4.4	3.4	8.8	13.9	13.4	2.8	.8	.5
344	Structural and miscellaneous metal products.....	495	100.0	5.6	4.8	13.4	11.2	19.4	2.8	.6	.7
346	Metal stampings.....	139	100.0	7.1	1.0	6.2	6.1	6.5	4.5	2.2	.3
35	Machinery, except electrical.....	433	100.0	3.1	.4	4.2	3.0	7.9	1.5	1.3	.4
356	General industrial machinery and equipment.....	38	100.0	1.4	1.4	16.3	8.4	6.3	.8	2.5	1.2
359	Miscellaneous machinery and parts (except electrical).....	67	100.0	15.3	.1	10.0	5.9	5.0	8.6	4.9	1.2
35999	Machinery and parts, n.e.c. (except electrical).....	65	100.0	15.8	.1	10.1	6.0	4.9	8.7	4.9	1.2

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15	16	17	18
	Total.....	0.6	0.7	1.0	0.7	0.4	0.1	1.2	0.1	0.1	0.2
20	Food and kindred products.....	3.5	2.8	2.0	3.5	.3	.3	2.5	.2	-	.7
207	Confectionery and related products....	.5	1.2	2.4	1.2	1.4	4.5	8.6	4.3	.6	2.3
212	Cigars.....	2.6	1.1	1.5	2.5	1.2	.2	12.5	1.0	.2	1.3
22	Basic textiles.....	-	.7	.3	-	.4	.3	.4	-	-	.2
228	Thread and yarn (cotton, wool, silk, and man-made fiber).....	-	.7	-	-	-	1.2	-	-	-	-
23	Apparel, including knit apparel, and other finished textile products.....	.4	.7	.8	1.1	3.9	.5	4.2	.6	2.6	.8
231	Men's, youths', and boys' clothing....	1.4	1.3	4.5	.5	1.6	.6	1.8	.6	.5	.5
26	Pulp, paper, and allied products.....	2.2	.4	1.0	3.1	.4	.1	2.4	.2	.9	.3
28	Chemicals and allied products.....	1.2	2.3	2.3	2.0	1.5	.7	5.5	.4	.1	.8
281	Industrial chemicals.....	1.0	2.0	2.3	.7	.7	.8	3.3	-	-	.9
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	1.0	.4	1.9	.7	6.9	1.2	6.4	3.5	.2	-
28211	Plastic materials and plasticizers, synthetic resins, and nonvulcanizable elastomers.....	1.1	.4	1.9	.8	7.6	1.4	2.9	-	.2	-
283	Drugs and medicines (including biological products, medicinal chemicals, botanical products, and pharmaceutical preparations).....	.1	-	.5	12.8	1.2	.7	20.3	-	.7	-
289	Miscellaneous chemical products.....	1.3	3.7	6.3	1.6	2.6	.7	17.1	.2	.1	.2
2899	Chemical products, n.e.c.....	1.5	4.2	7.3	1.8	3.0	.8	17.8	-	-	.2
29	Petroleum and coal products.....	.1	.2	.7	.1	-	-	.5	-	-	.1
291	Products of petroleum refining.....	.1	.2	.7	-	-	-	.5	-	-	-
2911	Products of petroleum refining (except liquefied petroleum gases and petroleum coke and breeze).....	.1	.1	.8	-	-	-	.5	-	-	-
30	Rubber and miscellaneous plastics products.....	.8	3.1	1.7	.8	4.4	.4	5.6	.3	2.0	1.0
307	Miscellaneous plastic products.....	1.4	5.3	1.8	.3	5.5	.1	6.7	.7	1.8	1.7
30714	Unsupported vinyl and polyethylene film and sheeting.....	.6	17.1	5.0	.4	.3	.2	10.4	1.2	-	.3
32	Stone, clay, and glass products.....	.6	2.2	.1	.3	.8	.2	2.0	.3	-	.7
33	Primary metal products.....	1.5	1.2	2.2	1.9	.5	.1	.6	.1	.1	-
331	Steel works and rolling mill products	1.6	1.3	2.2	1.2	.3	-	.1	-	.1	-
335	Nonferrous metal basic shapes.....	.1	.7	5.9	-	6.2	1.0	16.0	-	-	.1
336	Nonferrous and nonferrous base alloy castings.....	1.1	2.5	3.0	2.0	1.2	.5	2.9	-	-	.4
34	Fabricated metal products.....	.6	1.2	1.2	1.3	2.6	.7	1.4	.2	.3	.4
344	Structural and miscellaneous metal products.....	.6	.3	.7	-	1.6	.2	1.3	-	-	.2
346	Metal stampings.....	1.4	2.5	.5	1.2	3.2	.1	2.0	.3	-	.7
35	Machinery, except electrical.....	.4	5.6	1.4	2.6	3.1	.3	.6	.2	1.4	.2
356	General industrial machinery and equipment.....	.4	4.4	3.3	1.3	.4	.4	2.2	1.6	.1	.2
359	Miscellaneous machinery and parts (except electrical).....	.2	.5	4.2	.5	2.0	1.3	.3	.2	-	.1
35999	Machinery and parts, n.e.c. (except electrical).....	.2	.5	4.2	.5	1.8	1.3	.3	.2	-	-

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									Sampling variability code ³
		19	20	21	22	23	24	25	30	50	
	Total.....	0.2	0.1	0.2	0.1	-	0.2	0.2	4.6	9.6	
20	Food and kindred products.....	.1	.1	-	-	-	-	.1	15.4	21.1	c
207	Confectionery and related products....	-	2.2	-	-	-	.3	2.7	14.0	9.2	d
212	Cigars.....	.2	.4	1.3	3.7	0.1	1.1	.3	33.1	5.8	d
22	Basic textiles.....	-	.1	.2	-	-	1.1	2.8	3.3	67.0	e
228	Thread and yarn (cotton, wool, silk, and man-made fiber).....	-	-	.6	-	-	2.8	8.3	5.7	50.7	d
23	Apparel, including knit apparel, and other finished textile products.....	.7	.8	1.3	2.2	.3	1.0	2.0	12.7	28.7	d
231	Men's, youths', and boys' clothing....	.4	1.0	1.1	.4	.2	.5	1.7	22.0	29.8	d
26	Pulp, paper, and allied products.....	.2	-	.1	.1	.3	-	.9	4.8	14.1	d
28	Chemicals and allied products.....	.7	.2	1.0	.3	.1	1.3	.6	12.1	22.8	b
281	Industrial chemicals.....	.1	.1	.6	-	.1	.3	.8	11.5	26.2	b
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	-	.8	1.8	.3	-	-	.2	6.5	20.3	c
28211	Plastic materials and plasticizers, synthetic resins, and nonvulcanizable elastomers.....	-	.9	2.0	-	-	-	.3	7.1	22.1	c
283	Drugs and medicines (including biological products, medicinal chemicals, botanical products, and pharmaceutical preparations).....	13.9	1.7	.1	5.2	.2	17.9	1.9	8.7	2.0	c
289	Miscellaneous chemical products.....	.1	-	.5	-	.9	5.5	.6	10.2	19.4	d
2899	Chemical products, n.e.c.....	-	.1	.1	-	-	6.3	.7	7.6	19.0	d
29	Petroleum and coal products.....	-	-	.1	-	-	-	-	2.0	5.4	b
291	Products of petroleum refining.....	-	-	-	-	-	-	-	1.9	5.3	b
2911	Products of petroleum refining (except liquefied petroleum gases and petroleum coke and breeze).....	-	-	-	-	-	-	-	1.8	4.3	b
30	Rubber and miscellaneous plastics products.....	5.4	2.4	.8	1.0	.1	.3	1.8	19.3	15.0	d
307	Miscellaneous plastic products.....	2.1	5.0	1.8	2.1	-	.1	3.3	19.7	8.9	a
30714	Unsupported vinyl and polyethylene film and sheeting.....	7.3	3.0	.1	.2	.1	-	11.7	4.4	8.4	b
32	Stone, clay, and glass products.....	-	-	-	-	-	-	-	9.3	10.7	d
33	Primary metal products.....	.1	-	.5	.3	-	.1	.5	3.5	10.2	a
331	Steel works and rolling mill products.	.1	-	.5	.3	-	.1	.5	2.9	8.9	b
335	Nonferrous metal basic shapes.....	.7	-	2.7	2.4	-	.1	.6	12.0	7.8	e
336	Nonferrous and nonferrous base alloy castings.....	-	6.0	.2	-	-	-	-	6.3	20.7	c
34	Fabricated metal products.....	1.1	.6	.2	.1	.2	1.0	1.5	11.0	26.3	c
344	Structural and miscellaneous metal products.....	-	.3	.1	-	-	.2	-	5.9	30.1	d
346	Metal stampings.....	1.6	.5	.1	-	.1	-	.4	24.4	27.1	d
35	Machinery, except electrical.....	.4	-	.1	.1	-	5.9	.3	21.6	34.0	d
356	General industrial machinery and equipment.....	3.4	-	.4	.8	-	1.9	1.0	12.9	27.0	d
359	Miscellaneous machinery and parts (except electrical).....	.3	-	-	-	-	.4	.1	10.5	28.4	e
35999	Machinery and parts, n.e.c. (except electrical).....	.2	-	-	-	-	.4	-	9.9	28.8	e

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Tons (thous.)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5 ²	6	7	8
36	Electrical machinery and equipment....	216	100.0	3.2	1.4	11.1	5.2	6.5	0.7	0.8	0.6
361	Electrical transmission and distribu- tion equipment.....	59	100.0	.6	.1	14.2	2.5	3.0	.2	1.3	.1
364	Electric lighting and wiring equipment.....	53	100.0	3.0	1.0	5.1	3.5	2.9	.6	.5	1.1
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records..	45	100.0	6.9	3.7	14.0	.5	2.4	.7	.5	.3
37	Transportation equipment.....	946	100.0	1.1	.9	15.1	7.9	12.4	10.2	.5	1.2
371	Motor vehicles and motor vehicle equipment.....	915	100.0	1.0	.9	15.5	8.1	12.3	10.6	.5	1.2
38	Instruments, photographic goods, optical goods, watches, and clocks...	11	100.0	1.5	1.4	3.6	13.4	8.2	1.0	1.5	.6
382	Measuring, controlling, and indicating instruments.....	6	100.0	2.0	1.9	4.1	3.0	12.4	1.3	2.6	.4
TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15	16	17	18
36	Electrical machinery and equipment....	0.6	0.9	2.2	0.3	0.6	2.4	2.1	0.2	0.9	1.3
361	Electrical transmission and distribu- tion equipment.....	.2	.5	.4	.2	.2	5.4	2.8	-	1.2	-
364	Electric lighting and wiring equipment.....	.4	.2	1.4	.4	1.0	1.0	3.0	.9	2.0	.8
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records..	1.7	.7	2.1	.3	.3	2.6	1.9	-	.1	3.6
37	Transportation equipment.....	.2	.6	.9	2.9	5.0	1.2	1.1	1.6	.2	2.1
371	Motor vehicles and motor vehicle equipment.....	-	.6	.5	2.9	5.1	1.2	.7	1.6	.2	2.0
38	Instruments, photographic goods, optical goods, watches, and clocks...	.5	1.7	1.5	.6	4.2	1.4	3.9	.9	.4	.4
382	Measuring, controlling, and indicating instruments.....	.4	2.8	2.4	.6	7.7	2.1	6.7	1.6	.6	.4
TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									Sampling vari- ability code ³
		19	20	21	22	23	24	25	30	50	
36	Electrical machinery and equipment....	3.4	1.5	2.5	0.7	0.6	2.7	4.0	20.3	23.3	b
361	Electrical transmission and distribu- tion equipment.....	.6	.1	.9	-	-	.7	1.7	25.3	37.8	d
364	Electric lighting and wiring equipment.....	9.2	4.0	6.0	.5	.4	1.1	3.6	23.3	23.1	c
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records..	3.3	2.3	3.9	2.8	2.3	3.5	11.9	25.1	2.6	c
37	Transportation equipment.....	1.1	-	-	-	-	.7	.1	15.7	17.3	c
371	Motor vehicles and motor vehicle equipment.....	1.2	-	-	-	-	.4	.1	16.2	17.2	c
38	Instruments, photographic goods, optical goods, watches, and clocks...	.2	.5	.5	.6	.3	1.8	4.0	25.9	19.5	c
382	Measuring, controlling, and indicating instruments.....	.4	.8	.9	-	.4	2.8	6.0	13.6	22.1	d

¹See description of production areas on page 313.²Includes only those shipments that originated in one city in this area and terminated in another city in this area.³Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 5. Ton-Miles of Shipments—Production Area Destination and Commodity: 1963

TCC code	Commodity	Ton-miles (millions)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5 ²	6	7	8
	Total.....	9,247	100.0	11.6	1.1	2.4	18.0	5.1	2.1	0.8	0.6
20	Food and kindred products.....	754	100.0	6.5	2.3	4.9	2.8	1.1	2.6	1.3	2.2
207	Confectionery and related products....	87	100.0	8.4	1.1	2.8	.3	.1	1.0	1.0	.1
212	Cigars.....	16	100.0	.8	1.1	.9	.6	.3	.2	.1	.2
22	Basic textiles.....	181	100.0	1.6	-	1.8	1.3	.2	-	.1	-
228	Thread and yarn (cotton, wool, silk, and man-made fiber).....	65	100.0	3.7	-	1.1	.3	.3	-	-	-
23	Apparel, including knit apparel, and other finished textile products.....	178	100.0	1.5	.2	3.4	.6	.1	.2	-	.1
231	Men's, youths', and boys' clothing....	13	100.0	2.0	.7	1.8	.4	.1	.1	.2	.3
26	Pulp, paper, and allied products.....	331	100.0	4.3	3.6	11.3	5.9	3.2	1.6	.7	1.4
28	Chemicals and allied products.....	1,406	100.0	2.9	1.3	.9	2.3	1.4	2.0	.1	.2
281	Industrial chemicals.....	606	100.0	1.6	1.4	.9	4.1	2.5	3.7	.2	-
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	184	100.0	5.9	1.8	1.8	1.7	1.3	.2	-	.5
28211	Plastic materials and plasticizers, synthetic resins, and nonvulcanizable elastomers.....	153	100.0	7.1	2.2	2.2	2.1	1.5	.2	-	.6
283	Drugs and medicines (including biological products, medicinal chemicals, botanical products, and pharmaceutical preparations).....	178	100.0	.7	-	.2	.3	-	.1	-	-
289	Miscellaneous chemical products.....	179	100.0	1.2	1.1	.3	1.1	.3	.5	.2	.1
2899	Chemical products, n.e.c.....	153	100.0	1.4	1.1	.3	1.1	.4	.4	.2	.1
29	Petroleum and coal products.....	3,705	100.0	15.7	.3	1.4	41.5	10.5	2.7	1.4	.6
291	Products of petroleum refining.....	3,602	100.0	16.0	.3	1.4	42.6	10.8	2.7	1.4	.7
2911	Products of petroleum refining (except liquefied petroleum gases and petroleum coke and breeze).....	3,480	100.0	16.5	.3	1.5	43.8	10.9	2.8	1.4	.2
30	Rubber and miscellaneous plastics products.....	358	100.0	1.1	1.0	.6	.5	.6	.3	.5	.1
307	Miscellaneous plastic products.....	164	100.0	1.7	1.0	1.0	.3	.4	.4	-	.1
30714	Unsupported vinyl and polyethylene film and sheeting.....	47	100.0	2.0	.3	1.0	.5	.4	.1	-	.1
32	Stone, clay, and glass products.....	138	100.0	8.2	5.5	7.8	8.8	2.9	6.3	.1	.7
33	Primary metal products.....	843	100.0	40.1	2.2	2.4	2.6	1.6	2.3	1.0	.9
331	Steel works and rolling mill products.	731	100.0	46.0	2.1	1.9	2.4	1.6	2.4	1.0	.9
335	Nonferrous metal basic shapes.....	48	100.0	1.3	1.3	2.8	1.4	.8	.4	.1	.7
336	Nonferrous and nonferrous base alloy castings.....	4	100.0	4.4	11.5	.1	2.9	.3	4.4	.2	.5
34	Fabricated metal products.....	374	100.0	3.8	1.6	2.1	2.8	1.4	.8	.1	.1
344	Structural and miscellaneous metal products.....	90	100.0	8.9	3.9	5.5	3.5	4.3	1.5	.1	.2
346	Metal stampings.....	53	100.0	5.1	.4	1.6	1.4	.5	1.1	.3	.1
35	Machinery, except electrical.....	243	100.0	1.5	.1	.6	.4	.4	.3	.1	.1
356	General industrial machinery and equipment.....	18	100.0	.8	.5	2.8	1.3	.5	.2	.3	.2
359	Miscellaneous machinery and parts (except electrical).....	21	100.0	12.7	.1	2.5	1.2	.3	2.5	.9	.4
35999	Machinery and parts, n.e.c. (except electrical).....	21	100.0	13.1	.1	2.5	1.2	.3	2.6	.9	.4

See footnotes at end of table.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15	16	17	18
	Total.....	0.9	1.3	2.6	1.3	1.3	0.5	5.6	0.5	0.9	1.3
20	Food and kindred products.....	4.2	4.3	3.6	4.9	.8	.7	8.9	.8	.2	3.0
207	Confectionery and related products....	.3	.8	2.1	.8	1.5	5.4	13.8	7.2	1.3	4.5
212	Cigars.....	.9	.4	.8	1.0	.8	.2	12.8	1.0	.3	1.6
22	Basic textiles.....	-	.5	.3	-	.5	.3	.6	-	-	.4
228	Thread and yarn (cotton, wool, silk, and man-made fiber).....	-	.3	-	-	-	.9	-	-	-	-
23	Apparel, including knit apparel, and other finished textile products.....	.2	.3	.5	.5	3.3	.4	5.2	.8	4.7	1.1
231	Men's, youths', and boys' clothing....	.5	.6	2.6	.2	1.3	.5	2.2	.7	.9	.8
26	Pulp, paper, and allied products.....	2.9	.6	2.2	3.9	1.2	.3	9.2	.6	4.9	1.6
28	Chemicals and allied products.....	.8	1.9	2.4	1.5	2.1	1.1	11.0	.9	.2	2.0
281	Industrial chemicals.....	1.0	2.3	3.4	.8	1.2	1.7	9.0	-	-	3.0
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	.6	.3	1.8	.5	8.9	1.8	12.6	6.9	.5	-
28211	Plastic materials and plasticizers, synthetic resins, and nonvulcanizable elastomers.....	.7	.3	2.0	.6	10.7	2.1	5.9	-	.6	-
283	Drugs and medicines (including biological products, medicinal chemicals, botanical products, and pharmaceutical preparations).....	-	-	.2	3.2	.6	.4	13.2	-	.7	-
289	Miscellaneous chemical products.....	.5	1.9	4.0	.8	2.1	.6	20.2	.2	.2	.3
2899	Chemical products, n.e.c.....	.6	2.2	4.6	.8	2.4	.7	21.1	-	-	.3
29	Petroleum and coal products.....	.2	.6	3.3	.2	.1	-	3.9	.1	.2	.5
291	Products of petroleum refining.....	.2	.6	3.4	.1	.1	-	3.9	.1	.2	.1
2911	Products of petroleum refining (except liquefied petroleum gases and petroleum coke and breeze).....	.1	.5	3.5	.1	.1	-	4.1	.1	.2	.1
30	Rubber and miscellaneous plastics products.....	.3	1.7	1.1	.4	3.9	.4	7.3	.5	3.9	1.6
307	Miscellaneous plastic products.....	.5	2.7	1.0	.2	4.6	.1	8.3	.8	3.3	2.5
30714	Unsupported vinyl and polyethylene film and sheeting.....	.2	7.8	2.4	.2	.2	.2	11.6	1.3	-	.4
32	Stone, clay, and glass products.....	.7	3.4	.1	.5	2.1	.7	7.5	1.1	.1	3.4
33	Primary metal products.....	1.5	1.6	3.8	2.5	1.1	.3	2.1	.2	.5	.1
331	Steel works and rolling mill products.	1.6	1.8	3.8	1.6	.7	.1	.5	-	.6	.1
335	Nonferrous metal basic shapes.....	-	.5	5.5	-	7.5	1.3	28.1	-	-	.2
336	Nonferrous and nonferrous base alloy castings.....	.8	2.1	3.1	1.7	1.9	.8	6.4	-	-	1.2
34	Fabricated metal products.....	.4	1.0	1.3	1.0	3.8	1.1	2.9	.6	.9	1.0
344	Structural and miscellaneous metal products.....	.7	.5	1.2	-	3.8	.5	4.5	-	-	.7
346	Metal stampings.....	.8	1.8	.5	.9	3.9	.1	3.6	.5	-	1.4
35	Machinery, except electrical.....	.2	2.8	.8	1.3	2.5	.3	.7	.3	2.4	.3
356	General industrial machinery and equipment.....	.2	2.6	2.5	.8	.4	.4	3.2	2.3	.1	.3
359	Miscellaneous machinery and parts (except electrical).....	.1	.4	3.7	.3	2.9	1.9	.7	.4	-	.1
35999	Machinery and parts, n.e.c. (except electrical).....	.1	.4	3.8	.3	2.7	2.0	.7	.5	-	-

See footnotes at end of table.

TABLE 5. Ton-Miles of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued								
		19	20	21	22	23	24	25	30	50
	Total.....	0.8	0.7	1.8	0.8	0.5	3.9	3.8	12.9	16.9
20	Food and kindred products.....	.5	.8	-	-	-	.2	1.9	19.6	21.9
207	Confectionery and related products...	-	7.1	.1	-	.3	1.6	15.6	15.6	7.2
212	Cigars.....	.2	.7	2.8	8.9	.4	4.4	1.0	53.3	4.3
22	Basic textiles.....	-	.2	.5	.1	-	7.0	16.9	6.0	61.7
228	Thread and yarn (cotton, wool, silk, and man-made fiber).....	-	.1	1.2	-	-	10.4	29.6	4.1	48.0
23	Apparel, including knit apparel, and other finished textile products.....	.9	2.0	3.2	6.4	1.4	4.8	9.1	22.3	26.8
231	Men's, youths', and boys' clothing....	.5	2.4	2.6	1.1	.9	2.1	7.1	31.9	35.5
26	Pulp, paper, and allied products.....	.7	-	.8	1.1	4.2	.1	12.3	10.5	10.9
28	Chemicals and allied products.....	1.4	.8	4.1	1.2	.8	10.3	4.7	17.1	24.6
281	Industrial chemicals.....	.4	.3	3.4	-	.6	3.2	8.3	15.0	32.0
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	-	2.9	7.0	1.3	.1	.2	1.6	12.3	27.5
28211	Plastic materials and plasticizers, synthetic resins, and nonvulcanizable elastomers.....	-	3.5	8.4	-	.2	.2	2.0	14.2	32.7
283	Drugs and medicines (including biological products, medicinal chemicals, botanical products, and pharmaceutical preparations).....	9.4	2.2	.2	8.2	.5	45.0	4.5	9.0	1.4
289	Miscellaneous chemical products.....	.1	.1	1.2	.1	3.9	24.7	2.5	14.0	17.8
2899	Chemical products, n.e.c.....	-	.1	.3	.1	-	28.8	2.9	12.7	17.4
29	Petroleum and coal products.....	-	-	1.3	-	-	1.3	-	4.5	9.7
291	Products of petroleum refining.....	-	-	.3	-	-	1.4	-	4.3	9.4
2911	Products of petroleum refining (except liquefied petroleum gases and petroleum coke and breeze).....	-	-	.3	-	-	1.4	-	4.2	7.9
30	Rubber and miscellaneous plastics products.....	7.1	6.1	2.2	3.1	.3	1.2	8.2	29.3	16.7
307	Miscellaneous plastic products.....	2.5	12.1	4.4	6.1	.2	.5	14.4	25.0	5.9
30714	Unsupported vinyl and polyethylene film and sheeting.....	8.0	6.6	.3	.5	.3	-	46.6	4.2	4.8
32	Stone, clay, and glass products.....	.1	.2	.3	-	.2	.1	.6	25.2	13.4
33	Primary metal products.....	.4	.2	3.6	2.4	.3	.8	5.8	7.9	11.8
331	Steel works and rolling mill products	.4	-	3.5	2.1	.3	.9	6.3	6.7	10.7
335	Nonferrous metal basic shapes.....	1.3	-	9.7	9.9	-	.5	3.5	15.4	7.8
336	Nonferrous and nonferrous base alloy castings.....	.1	26.4	.8	-	-	.4	-	8.3	21.7
34	Fabricated metal products.....	2.2	2.4	.9	.7	1.2	7.8	10.8	23.4	23.9
344	Structural and miscellaneous metal products.....	.1	2.2	1.0	.1	.6	3.3	.2	11.6	41.1
346	Metal stampings.....	2.7	1.8	.4	-	.8	-	2.5	37.9	29.9
35	Machinery, except electrical.....	.5	.1	.3	.2	-	26.0	1.2	25.6	31.0
356	General industrial machinery and equipment.....	5.0	-	1.1	2.9	.1	10.3	5.1	24.0	32.1
359	Miscellaneous machinery and parts (except electrical).....	.6	-	-	-	.1	3.1	.6	15.9	48.6
35999	Machinery and parts, n.e.c. (except electrical).....	.5	-	-	-	.1	2.8	.2	15.4	49.4

See footnotes at end of table.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**—Continued

TCC code	Commodity	Ton- miles (millions)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5 ²	6	7	8
36	Electrical machinery and equipment....	151	100.0	1.2	0.3	1.3	0.7	0.2	0.1	0.1	0.1
361	Electrical transmission and distribu- tion equipment.....	48	100.0	.2	-	1.4	.2	.1	-	.1	-
364	Electric lighting and wiring equipment.....	36	100.0	1.1	.2	.5	.2	.1	.1	-	.2
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records..	41	100.0	1.9	.8	1.4	-	.1	.1	-	-
37	Transportation equipment.....	241	100.0	1.1	.6	6.3	2.8	1.5	3.3	.1	.3
371	Motor vehicles and motor vehicle equipment.....	220	100.0	1.1	.6	6.9	3.1	1.6	3.7	.1	.3
38	Instruments, photographic goods, optical goods, watches, and clocks...	5	100.0	.8	.5	.6	1.4	.3	.2	.1	.1
382	Measuring, controlling, and indicating instruments.....	4	100.0	.8	.5	.6	.3	.4	.2	.2	.1
TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15	16	17	18
36	Electrical machinery and equipment....	0.2	0.4	1.0	0.1	0.4	1.7	2.0	0.2	1.3	1.5
361	Electrical transmission and distribu- tion equipment.....	-	.2	.2	.1	.1	3.2	2.3	-	1.5	-
364	Electric lighting and wiring equipment.....	.1	.1	.7	.2	.7	.7	2.9	.9	2.9	1.0
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records..	.4	.2	.8	.1	.2	1.4	1.4	-	.1	3.2
37	Transportation equipment.....	.1	.7	1.2	2.7	9.1	2.2	2.9	4.2	.6	6.6
371	Motor vehicles and motor vehicle equipment.....	-	.7	.7	2.9	9.7	2.3	2.0	4.6	.7	6.8
38	Instruments, photographic goods, optical goods, watches, and clocks...	.2	.9	1.0	.3	3.5	1.3	5.0	1.1	.8	.6
382	Measuring, controlling, and indicating instruments.....	.2	1.2	1.3	.2	5.3	1.6	7.0	1.7	1.0	.5
TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		19	20	21	22	23	24	25	30	50	
36	Electrical machinery and equipment....	3.2	2.9	4.9	1.6	2.0	9.6	13.5	26.8	22.7	
361	Electrical transmission and distribu- tion equipment.....	.5	.1	1.5	-	-	2.1	4.9	40.3	41.0	
364	Electric lighting and wiring equipment	9.0	7.6	11.9	1.2	1.4	4.1	12.5	24.4	15.3	
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records...	2.5	3.4	5.8	4.9	6.2	9.8	31.4	22.1	1.8	
37	Transportation equipment.....	2.9	.1	-	-	-	6.6	.8	23.0	20.3	
371	Motor vehicles and motor vehicle equipment.....	3.2	-	-	-	-	4.5	.5	24.7	19.3	
38	Instruments, photographic goods, optical goods, watches, and clocks...	.3	1.2	1.2	1.9	1.2	8.6	18.2	29.7	19.0	
382	Measuring, controlling, and indicating instruments.....	.4	1.6	1.8	.1	1.6	11.0	22.0	18.4	20.0	

¹See description of production areas on page 313.²Includes only those shipments that originated in one city in this area and terminated in another city in this area.

Production Areas 6, 7, and 8

Production Area 6 consists of one standard metropolitan statistical area: Baltimore, Md.

Production Area 7 consists of two standard metropolitan statistical areas: Allentown-Bethlehem-Easton, Pa.-N.J., and Reading, Pa.

Production Area 8 consists of three standard metropolitan statistical areas: Harrisburg, Pa.; Lancaster, Pa.; and York, Pa.

Data are based on 196 plants from which 24,759 shipping documents were sampled. The sampling variability on the estimated 34.7 million tons shipped from Production Areas 6, 7, and 8 is ± 19.9 percent.

Major commodity groups shipped from Production Areas 6, 7, and 8 and their area of destinations are summarized in table A below.

Table A.—DISTRIBUTION OF TONS OF COMMODITIES SHIPPED FROM PRODUCTION AREAS 6, 7, AND 8 BY AREA OF DESTINATION

TCC code	Commodity class	Total tons (thousands)	Percent distribution by destination area			
			Production Areas 6,7 and 8 ¹	Other production areas	Other SMSA's	Balance of country
	Production Areas 6, 7, and 8 combined, total.....	² 34,665	9.7	42.1	23.7	24.5
	Production Area 6, total.....	17,833	10.4	31.9	29.9	27.8
	Production Area 7, total.....	6,372	10.2	61.3	13.5	15.0
	Production Area 8, total.....	10,460	8.1	48.3	19.2	24.4
20	Food and kindred products.....	9,097	9.4	35.7	30.1	24.8
22	Basic textiles.....	351	9.9	62.8	6.2	21.1
23	Apparel, including knit apparel, and other finished textile products.....	122	1.1	54.9	26.6	17.4
25	Furniture and fixtures.....	69	13.0	43.4	15.7	27.9
26	Pulp, paper, and allied products.....	1,123	22.3	56.0	7.9	13.8
28	Chemicals and allied products.....	2,897	5.6	44.2	21.8	28.4
29	Petroleum and coal products.....	7,933	8.4	22.2	34.8	34.6
30	Rubber and miscellaneous plastics products...	102	12.8	53.0	24.4	9.8
31	Leather and leather products.....	155	11.6	45.0	19.9	23.5
34	Fabricated metal products.....	2,030	7.0	53.1	19.2	20.7
35	Machinery, except electrical.....	639	3.9	55.9	20.2	20.0
36	Electrical machinery and equipment.....	465	3.4	73.1	11.3	12.2
37	Transportation equipment.....	545	7.8	50.1	21.3	20.8
38	Instruments, photographic goods, optical goods, watches, and clocks.....	3	1.4	64.4	24.1	10.1

¹Includes only those shipments that originated in one city in these areas and terminated in another city in these areas.

²Includes commodity classes not shown separately.

TABLE 1. Tons of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by means of transport								Sampling variability code ¹
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown	
	Production Areas 6, 7, and 8 combined, total.....	34,665	100.0	31.1	45.6	16.0	-	6.6	0.6	0.1	
	Production Area 6, total.....	17,833	100.0	20.9	52.1	13.8	-	12.6	.4	.2	
	Production Area 7, total.....	6,372	100.0	40.6	47.6	11.1	-	.2	.4	.1	
	Production Area 8, total.....	10,460	100.0	42.9	32.8	22.8	-	.3	1.2	-	
20	Food and kindred products.....	9,097	100.0	35.6	46.9	10.8	-	6.6	.1	-	d
201	Meat, poultry, and small game; fresh, chilled or frozen.....	277	100.0	-	50.2	49.8	-	-	-	-	d
22	Basic textiles.....	351	100.0	8.4	74.2	15.2	-	.3	1.9	-	d
23	Apparel, including knit apparel, and other finished textile products.....	122	100.0	5.7	77.1	1.7	0.5	-	9.8	5.2	d
231	Men's, youths', and boys' clothing...	56	100.0	2.5	88.6	.1	.4	-	8.4	-	e
233	Women's, misses', girls', and infants' clothing.....	28	100.0	.5	68.8	2.7	.2	-	4.7	23.1	e
25	Furniture and fixtures.....	69	100.0	9.5	37.6	44.7	-	-	7.7	.5	c
26	Pulp, paper, and allied products.....	1,123	100.0	24.4	38.7	36.8	-	-	-	.1	e
265	Containers, boxes, and related products, paperboard, fiberboard, and pulpboard.....	374	100.0	20.3	17.8	61.7	-	-	.1	.1	d
28	Chemicals and allied products.....	2,897	100.0	11.9	67.6	12.8	-	6.8	.7	.2	d
281	Industrial chemicals.....	427	100.0	19.3	25.5	33.1	.3	20.3	1.2	.3	c
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	1,108	100.0	15.7	78.2	.2	-	5.4	.4	.1	d
285	Paints, varnishes, lacquers, enamels, and allied products.....	362	100.0	5.3	75.4	10.9	-	4.9	2.9	.6	b
29	Petroleum and coal products.....	7,933	100.0	10.1	35.0	36.7	-	17.1	.8	.3	d
30	Rubber and miscellaneous plastics products.....	102	100.0	6.5	70.3	19.6	.1	.3	2.4	.8	c
307	Miscellaneous plastic products.....	73	100.0	7.3	62.8	25.3	.2	-	3.3	1.1	d
31	Leather and leather products.....	155	100.0	6.6	84.4	.3	.1	.1	8.2	.3	d
314	Footwear (except rubber).....	60	100.0	-	83.0	.5	.2	.2	15.5	.6	d
332*	Iron and steel castings.....	103	100.0	1.5	83.0	15.1	-	-	.4	-	d
34	Fabricated metal products.....	2,030	100.0	38.9	50.2	6.9	-	3.3	.7	-	b
349	Miscellaneous fabricated metal products.....	99	100.0	2.9	63.2	29.3	-	-	4.6	-	d
35	Machinery, except electrical.....	639	100.0	44.1	46.6	3.0	.1	-	6.1	.1	c
36	Electrical machinery and equipment...	465	100.0	8.1	60.3	30.0	.1	-	.7	.8	d
369	Miscellaneous electrical machinery, equipment, and supplies.....	352	100.0	.5	61.3	38.2	-	-	-	-	e
37	Transportation equipment.....	545	100.0	21.3	73.5	3.1	-	.4	1.7	-	e
371	Motor vehicles and motor vehicle equipment.....	529	100.0	21.1	73.9	3.0	-	.3	1.7	-	e
38	Instruments, photographic goods, optical goods, watches, and clocks..	3	100.0	2.5	69.2	7.0	1.8	-	19.1	.4	b

*TCC 33 not shown.

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 2. Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Ton-miles (millions)	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Un-known
	Production Areas 6, 7, and 8 combined, total.....	9,345	100.0	41.1	34.6	6.6	0.1	16.2	1.3	0.1
	Production Area 6, total.....	4,916	100.0	28.1	37.1	4.6	-	29.2	.9	.1
	Production Area 7, total.....	1,508	100.0	58.8	34.3	4.9	.2	.3	1.3	.2
	Production Area 8, total.....	2,921	100.0	53.8	30.7	11.0	-	2.4	2.1	-
20	Food and kindred products.....	2,257	100.0	40.3	49.4	3.5	-	6.5	.3	-
201	Meat, poultry, and small game; fresh, chilled or frozen.....	30	100.0	-	71.5	28.1	.1	-	.3	-
22	Basic textiles.....	126	100.0	29.9	60.4	4.0	-	.1	5.6	-
23	Apparel, including knit apparel, and other finished textile products.....	55	100.0	11.2	64.6	.2	1.0	-	19.4	3.6
231	Men's, youths', and boys' clothing.....	24	100.0	9.3	61.2	-	1.4	-	28.1	-
233	Women's, misses', girls', and infants' clothing.....	7	100.0	.1	61.6	.9	1.0	-	8.3	28.1
25	Furniture and fixtures.....	28	100.0	48.5	30.3	14.3	-	-	6.4	.5
26	Pulp, paper, and allied products.....	189	100.0	46.9	30.2	22.4	-	-	.2	.3
265	Containers, boxes, and related products, paperboard, fiberboard, and pulpboard.....	78	100.0	46.9	18.7	33.7	-	-	.3	.4
28	Chemicals and allied products.....	750	100.0	24.6	49.7	7.1	.2	16.5	1.6	.3
281	Industrial chemicals.....	125	100.0	45.2	22.8	17.0	1.0	11.0	1.9	1.1
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	296	100.0	29.7	62.6	-	-	7.0	.6	.1
285	Paints, varnishes, lacquers, enamels, and allied products.....	126	100.0	3.5	67.6	7.3	-	15.3	6.0	.3
29	Petroleum and coal products.....	2,013	100.0	10.5	16.0	15.7	-	57.3	.4	.1
30	Rubber and miscellaneous plastics products.....	61	100.0	20.3	71.8	5.6	.1	.4	1.8	-
307	Miscellaneous plastic products.....	43	100.0	25.4	64.3	7.6	.1	.1	2.5	-
31	Leather and leather products.....	83	100.0	16.0	72.1	.2	.3	.3	11.0	.1
314	Footwear (except rubber).....	34	100.0	-	81.5	.5	.8	.8	16.2	.2
332*	Iron and steel castings.....	21	100.0	14.8	67.4	16.9	-	-	.9	-
34	Fabricated metal products.....	711	100.0	62.9	26.9	2.6	-	6.0	1.6	-
349	Miscellaneous fabricated metal products.....	32	100.0	8.5	80.1	2.3	.1	-	9.0	-
35	Machinery, except electrical.....	379	100.0	55.3	33.5	1.2	.2	-	9.8	-
36	Electrical machinery and equipment.....	131	100.0	22.1	58.7	15.8	.4	-	2.5	.5
369	Miscellaneous electrical machinery, equipment, and supplies.....	71	100.0	.8	70.4	28.6	.1	-	.1	-
37	Transportation equipment.....	137	100.0	30.9	60.6	4.9	.1	.8	2.7	-
371	Motor vehicles and motor vehicle equipment.....	129	100.0	31.4	60.7	5.1	-	-	2.8	-
38	Instruments, photographic goods, optical goods, watches, and clocks.....	2	100.0	4.3	66.4	.6	3.7	-	24.9	.1

*TCC 33 not shown.

TABLE 3. Tons of Shipments—Distance and Commodity:
1963

TCC code	Commodity	Tons (thous.)	Percent distribution by distance of shipment								Sampling variability code ¹
			All distances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over	
	Production Areas 6, 7, and 8 combined, total.....	34,665	100.0	38.0	23.7	15.0	9.8	9.9	1.7	1.9	
	Production Area 6, total.....	17,833	100.0	36.5	21.9	15.1	11.6	12.5	1.1	1.3	
	Production Area 7, total.....	6,372	100.0	56.9	14.2	14.1	5.3	4.7	1.9	2.9	
	Production Area 8, total.....	10,460	100.0	29.0	32.4	15.3	9.6	8.8	2.6	2.3	
20	Food and kindred products.....	9,097	100.0	27.1	27.4	21.2	16.5	4.7	2.5	.6	d
201	Meat, poultry, and small game; fresh, chilled or frozen.....	277	100.0	70.1	23.6	1.2	.9	4.2	-	-	d
22	Basic textiles.....	351	100.0	22.6	35.9	6.6	16.7	12.4	2.3	3.5	d
23	Apparel, including knit apparel, and other finished textile products.....	122	100.0	29.2	18.1	7.3	13.9	18.7	5.8	7.0	d
231	Men's, youths', and boys' clothing...	56	100.0	47.1	5.3	9.6	6.5	18.2	6.0	7.3	e
233	Women's, misses', girls', and infants' clothing.....	28	100.0	18.2	45.8	1.5	22.7	9.6	.4	1.8	e
25	Furniture and fixtures.....	69	100.0	30.0	33.8	4.6	13.3	7.4	2.2	8.7	c
26	Pulp, paper, and allied products.....	1,123	100.0	55.3	15.7	19.8	4.7	2.9	1.2	.4	e
265	Containers, boxes, and related products, paperboard, fiberboard, and pulpboard.....	374	100.0	44.0	36.3	4.4	5.3	5.4	3.5	1.1	d
28	Chemicals and allied products.....	2,897	100.0	37.6	27.7	10.8	12.7	7.7	1.3	2.2	d
281	Industrial chemicals.....	427	100.0	59.9	7.0	5.8	9.0	11.4	4.1	2.8	c
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	1,108	100.0	20.0	41.1	8.3	20.1	8.4	1.3	.8	d
285	Paints, varnishes, lacquers, enamels, and allied products.....	362	100.0	10.5	26.3	23.8	19.7	17.6	1.1	1.0	b
29	Petroleum and coal products.....	7,933	100.0	45.4	18.7	13.9	2.9	19.1	-	-	d
30	Rubber and miscellaneous plastics products.....	102	100.0	25.3	17.0	8.9	10.9	19.9	5.6	12.4	c
307	Miscellaneous plastic products.....	73	100.0	31.3	17.4	9.1	8.0	16.2	3.8	14.2	d
31	Leather and leather products.....	155	100.0	15.3	17.7	9.8	25.6	20.4	2.3	8.9	d
314	Footwear (except rubber).....	60	100.0	16.0	24.9	11.6	11.4	21.9	3.1	11.1	d
332*	Iron and steel castings.....	103	100.0	34.8	35.4	20.4	1.3	6.8	.1	1.2	d
34	Fabricated metal products.....	2,030	100.0	39.9	24.6	8.4	9.7	10.4	.3	6.7	b
349	Miscellaneous fabricated metal products.....	99	100.0	44.4	12.5	7.5	15.6	14.3	1.4	4.3	d
35	Machinery, except electrical.....	639	100.0	16.8	19.4	14.7	11.3	13.9	13.4	10.5	c
36	Electrical machinery and equipment...	465	100.0	32.1	24.9	15.0	10.0	11.8	5.1	1.1	d
369	Miscellaneous electrical machinery, equipment, and supplies.....	352	100.0	38.6	26.2	15.2	10.5	9.0	.4	.1	e
37	Transportation equipment.....	545	100.0	42.1	19.1	12.8	15.5	7.9	1.3	1.3	e
371	Motor vehicles and motor vehicle equipment.....	529	100.0	42.7	19.1	13.0	15.1	7.7	1.2	1.2	e
38	Instruments, photographic goods, optical goods, watches, and clocks..	3	100.0	19.0	19.4	11.0	11.3	18.2	10.4	10.7	b

*TCC 33 not shown.

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5	6 ²	7 ²	8 ²
	Production Areas 6, 7, and 8 combined, total.....	34,665	100.0	2.7	2.2	7.2	7.6	9.8	1.8	1.7	6.2
	Production Area 6, total.....	17,833	100.0	2.2	1.7	4.3	4.2	9.3	1.5	2.1	6.8
	Production Area 7, total.....	6,372	100.0	4.3	4.3	14.0	13.0	13.5	1.3	1.6	7.3
	Production Area 8, total.....	10,460	100.0	2.5	1.9	8.0	10.2	8.3	2.5	1.0	4.6
20	Food and kindred products.....	9,097	100.0	3.3	1.5	4.9	6.8	6.4	2.5	.7	6.2
201	Meat, poultry, and small game; fresh, chilled or frozen.....	277	100.0	.9	-	2.0	5.4	3.8	8.1	3.4	26.0
22	Basic textiles.....	351	100.0	4.3	1.3	27.6	4.0	8.5	.7	1.8	7.4
23	Apparel, including knit apparel, and other finished textile products.....	122	100.0	1.8	1.1	20.5	2.7	4.3	.9	-	.2
231	Men's, youths', and boys' clothing...	56	100.0	1.3	1.3	12.5	1.8	5.8	.1	-	-
233	Women's, misses', girls', and infants' clothing.....	28	100.0	.8	.2	52.3	1.2	1.6	.8	-	.2
25	Furniture and fixtures.....	69	100.0	1.4	1.0	18.0	2.6	4.8	3.3	.2	9.5
26	Pulp, paper, and allied products.....	1,123	100.0	17.6	3.9	2.2	20.1	9.8	.5	.2	21.6
265	Containers, boxes, and related products, paperboard, fiberboard, and pulpboard.....	374	100.0	1.9	9.3	4.6	4.9	24.2	.3	.5	8.0
28	Chemicals and allied products.....	2,897	100.0	4.6	.3	8.2	4.9	13.7	.4	2.2	3.0
281	Industrial chemicals.....	427	100.0	.5	.3	1.1	10.7	32.2	.9	1.6	5.6
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	1,108	100.0	10.8	.6	14.0	6.5	12.5	.1	.1	.2
285	Paints, varnishes, lacquers, enamels, and allied products.....	362	100.0	2.8	.2	7.5	5.8	4.4	1.5	.1	1.7
29	Petroleum and coal products.....	7,933	100.0	.1	1.1	3.2	1.5	7.3	2.1	.3	6.0
30	Rubber and miscellaneous plastics products.....	102	100.0	1.7	1.1	8.8	5.1	8.6	9.6	.8	2.4
307	Miscellaneous plastic products.....	73	100.0	1.4	.6	11.0	5.0	11.5	12.8	1.2	.3
31	Leather and leather products.....	155	100.0	5.1	1.6	8.8	4.9	1.9	2.5	1.6	7.5
314	Footwear (except rubber).....	60	100.0	4.2	3.3	14.5	6.7	3.5	2.0	1.0	9.6
332*	Iron and steel castings.....	103	100.0	4.6	2.8	18.0	7.3	11.9	5.9	8.5	1.5
34	Fabricated metal products.....	2,030	100.0	2.9	6.1	11.2	9.3	11.5	2.7	.4	3.9
349	Miscellaneous fabricated metal products.....	99	100.0	14.0	.1	6.5	2.6	6.2	.9	-	28.3
35	Machinery, except electrical.....	639	100.0	1.0	.1	11.3	4.9	9.9	.2	1.5	2.2
36	Electrical machinery and equipment...	465	100.0	6.2	1.9	15.3	11.1	14.7	2.2	.4	.8
369	Miscellaneous electrical machinery, equipment, and supplies.....	352	100.0	7.5	2.1	16.5	12.0	16.8	2.5	.5	1.0
37	Transportation equipment.....	545	100.0	.6	1.8	3.2	10.1	14.4	1.7	3.2	2.9
371	Motor vehicles and motor vehicle equipment.....	529	100.0	.6	1.8	3.1	9.9	14.8	1.7	3.2	3.0
38	Instruments, photographic goods, optical goods, watches, and clocks..	3	100.0	.4	1.6	14.4	.7	16.0	1.0	.1	.3

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15	16	17	18
	Production Areas 6, 7, and 8 combined, total.....	1.3	1.5	1.7	2.8	0.7	0.3	1.3	0.2	0.1	0.4
	Production Area 6, total.....	.5	.6	1.9	3.4	.5	.3	1.0	.1	.1	.3
	Production Area 7, total.....	1.1	1.6	.7	2.1	1.0	.3	.8	.2	.2	.3
	Production Area 8, total.....	2.8	2.9	1.8	2.4	1.0	.4	2.1	.3	.2	.5
20	Food and kindred products.....	1.2	.2	2.5	4.9	.4	.5	.9	.3	-	.3
201	Meat, poultry, and small game; fresh, chilled or frozen.....	.3	.2	-	-	-	-	2.0	-	-	-
22	Basic textiles.....	.1	2.5	.4	-	3.3	.8	2.0	.3	2.8	.2
23	Apparel, including knit apparel, and other finished textile products.....	.2	.5	5.9	3.3	1.9	1.1	2.9	.7	.1	.2
231	Men's, youths', and boys' clothing...	-	.5	.3	6.5	2.7	1.4	.8	1.1	-	-
233	Women's, misses', girls', and infants' clothing.....	.2	.3	21.7	.5	.2	-	6.8	.1	-	.5
25	Furniture and fixtures.....	.4	.9	1.0	.3	.3	.1	2.8	-	.1	.1
26	Pulp, paper, and allied products.....	.3	.2	.3	.1	.1	.1	.7	-	-	.2
265	Containers, boxes, and related products, paperboard, fiberboard, and pulpboard.....	.5	.2	-	.3	.2	.1	.4	-	-	.7
28	Chemicals and allied products.....	1.6	.6	.9	2.1	1.0	.2	1.5	.1	-	1.0
281	Industrial chemicals.....	1.5	.3	1.9	3.7	2.1	.7	3.6	.3	-	1.7
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	.5	.6	.9	3.6	1.4	.2	1.7	.1	-	-
285	Paints, varnishes, lacquers, enamels, and allied products.....	10.0	-	2.2	.5	1.1	.3	2.0	-	-	5.6
29	Petroleum and coal products.....	1.7	3.1	1.7	2.5	-	-	-	-	-	-
30	Rubber and miscellaneous plastics products.....	.9	1.1	3.1	1.2	2.0	.8	2.8	.8	.2	.2
307	Miscellaneous plastic products.....	1.2	1.0	3.7	.3	1.3	.9	.7	.1	-	.1
31	Leather and leather products.....	.1	.5	3.5	.7	3.2	.3	1.5	.5	.7	5.5
314	Footwear (except rubber).....	.1	.5	1.4	1.2	2.6	.5	2.1	.5	.9	8.6
332 *	Iron and steel castings.....	.2	.7	1.2	13.5	-	.8	.4	.2	.6	-
34	Fabricated metal products.....	.2	.7	.3	1.7	.2	.2	.9	.6	.3	.3
349	Miscellaneous fabricated metal products.....	.1	2.8	.5	3.2	.1	.1	1.1	.3	.4	1.2
35	Machinery, except electrical.....	-	13.3	.3	.2	.4	2.4	7.1	-	1.2	.2
36	Electrical machinery and equipment...	4.4	1.1	5.0	2.3	1.9	.1	7.0	-	.1	.1
369	Miscellaneous electrical machinery, equipment, and supplies.....	4.8	1.1	6.5	2.3	1.4	.1	4.8	-	-	-
37	Transportation equipment.....	1.3	1.9	2.4	3.9	3.9	.4	.1	.1	-	.7
371	Motor vehicles and motor vehicle equipment.....	1.4	1.9	2.4	4.1	3.9	.3	-	.1	-	.8
38	Instruments, photographic goods, optical goods, watches, and clocks..	.4	7.2	1.6	2.1	2.9	.3	4.4	.1	.4	.1

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									Sampling variability code ³
		19	20	21	22	23	24	25	30	50	
	Production Areas 6, 7, and 8 combined, total.....	0.3	0.4	0.2	0.1	0.1	0.5	0.7	23.7	24.5	
	Production Area 6, total.....	.2	.1	.2	-	.1	.4	.5	29.9	27.8	
	Production Area 7, total.....	.7	.6	.2	-	.3	.8	1.3	13.5	15.0	
	Production Area 8, total.....	.3	.6	.4	.4	-	.5	.8	19.2	24.4	
20	Food and kindred products.....	.2	.5	.4	.2	.1	-	.2	30.1	24.8	d
201	Meat, poultry, and small game; fresh, chilled or frozen.....	-	-	-	-	-	-	-	16.7	31.2	d
22	Basic textiles.....	-	1.6	-	-	.3	2.5	.3	6.2	21.1	d
23	Apparel, including knit apparel, and other finished textile products.....	1.0	1.4	.7	.2	.3	.9	3.2	26.6	17.4	d
231	Men's, youths', and boys' clothing....	.3	2.1	1.3	-	.2	1.3	4.3	33.9	20.5	e
233	Women's, misses', girls', and infants' clothing.....	.2	.3	-	.1	-	.1	1.4	1.8	8.7	e
25	Furniture and fixtures.....	.1	.1	1.1	-	-	.4	7.9	15.7	27.9	c
26	Pulp, paper, and allied products.....	.1	-	-	-	-	.3	-	7.9	13.8	e
265	Containers, boxes, and related products, paperboard, fiberboard, and pulpboard.....	.3	-	-	-	-	1.0	-	12.6	30.0	d
28	Chemicals and allied products.....	.8	.1	.5	.1	.3	.4	1.3	21.8	28.4	d
281	Industrial chemicals.....	1.2	.6	2.6	-	-	2.0	.5	7.4	17.0	c
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	1.0	.1	-	.3	-	.1	.4	32.2	12.1	d
285	Paints, varnishes, lacquers, enamels, and allied products.....	2.0	-	.9	-	.5	.6	-	31.5	18.8	b
29	Petroleum and coal products.....	-	-	-	-	-	-	-	34.8	34.6	d
30	Rubber and miscellaneous plastics products.....	.7	1.7	1.5	.2	.1	.4	10.0	24.4	9.8	c
307	Miscellaneous plastic products.....	.8	.6	1.1	-	-	.4	12.9	21.9	9.2	d
31	Leather and leather products.....	.6	.4	.2	-	.3	.7	4.0	19.9	23.5	d
314	Footwear (except rubber).....	1.6	.2	.3	-	.4	.7	6.1	16.0	11.5	d
332 *	Iron and steel castings.....	-	-	.1	-	-	1.2	-	6.4	14.2	d
34	Fabricated metal products.....	.6	.1	-	-	.7	2.1	3.2	19.2	20.7	b
349	Miscellaneous fabricated metal products.....	9.1	.1	.4	.4	.1	1.4	.6	11.6	7.9	d
35	Machinery, except electrical.....	.1	.5	.4	2.2	-	.1	.3	20.2	20.0	c
36	Electrical machinery and equipment....	.7	.2	.2	.2	-	.1	.5	11.3	12.2	d
369	Miscellaneous electrical machinery, equipment, and supplies.....	.9	-	-	.1	-	-	-	7.7	11.4	e
37	Transportation equipment.....	3.7	.5	.1	-	.3	-	.7	21.3	20.8	e
371	Motor vehicles and motor vehicle equipment.....	3.8	.6	-	-	.3	-	.6	20.8	20.9	e
38	Instruments, photographic goods, optical goods, watches, and clocks....	.3	2.7	3.8	.4	1.7	.4	2.5	24.1	10.1	b

*TCC 33 not shown.

¹See description of production areas on page 313.²Includes only those shipments that originated in one city in this area and terminated in another city in this area.³Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**

TCC code	Commodity	Ton-miles (millions)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5	6 ²	7 ²	8 ²
	Production Areas 6, 7, and 8 combined, total.....	9,345	100.0	3.2	1.7	3.8	3.7	2.6	0.4	0.5	1.3
	Production Area 6, total.....	4,916	100.0	2.8	1.5	2.7	2.4	2.8	.2	.7	1.4
	Production Area 7, total.....	1,508	100.0	4.6	2.7	5.3	3.9	2.4	.6	.1	2.4
	Production Area 8, total.....	2,921	100.0	3.1	1.6	4.7	5.6	2.5	.5	.3	.6
20	Food and kindred products.....	2,257	100.0	4.7	1.6	3.5	4.5	2.3	.4	.1	1.3
201	Meat, poultry, and small game; fresh, chilled or frozen.....	30	100.0	2.9	-	3.0	7.6	3.0	2.1	2.3	11.0
22	Basic textiles.....	126	100.0	4.1	.9	11.5	1.4	2.1	.1	.2	.6
23	Apparel, including knit apparel, and other finished textile products.....	55	100.0	1.2	.4	5.1	.5	.5	.2	-	-
231	Men's, youths', and boys' clothing....	24	100.0	.8	.5	2.2	.3	.7	-	-	-
233	Women's, misses', girls', and infants' clothing.....	7	100.0	1.0	.1	25.6	.6	.3	.2	-	-
25	Furniture and fixtures.....	28	100.0	1.2	.6	7.6	1.0	.9	.7	-	2.0
26	Pulp, paper, and allied products.....	189	100.0	26.8	3.9	1.8	9.1	4.5	.1	.1	8.9
265	Containers, boxes, and related products, paperboard, fiberboard, and pulpboard.....	78	100.0	2.4	6.2	2.7	2.5	8.5	.1	.2	1.4
28	Chemicals and allied products.....	750	100.0	6.2	.3	5.7	2.5	3.9	.1	.7	.6
281	Industrial chemicals.....	125	100.0	.4	.2	.4	2.9	8.0	.4	.3	.4
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	296	100.0	14.4	.5	8.9	4.0	4.1	-	-	-
285	Paints, varnishes, lacquers, enamels, and allied products.....	126	100.0	2.3	.1	3.2	2.3	.6	.3	-	.2
29	Petroleum and coal products.....	2,013	100.0	.1	1.0	2.1	.9	2.2	.4	.1	1.1
30	Rubber and miscellaneous plastics products.....	61	100.0	1.0	.4	2.1	1.3	.8	.8	-	.2
307	Miscellaneous plastic products.....	43	100.0	.8	.2	2.6	1.2	1.0	1.0	-	-
31	Leather and leather products.....	83	100.0	3.3	.7	2.6	1.4	.4	.3	.3	.6
314	Footwear (except rubber).....	34	100.0	2.3	1.4	3.8	1.9	.6	.2	.2	.3
332*	Iron and steel castings.....	21	100.0	6.3	2.5	10.3	4.1	3.0	2.3	2.3	.5
34	Fabricated metal products.....	711	100.0	2.6	2.8	3.1	2.3	1.6	.8	.1	.5
349	Miscellaneous fabricated metal products.....	32	100.0	15.6	-	2.1	.9	1.2	.2	-	2.0
35	Machinery, except electrical.....	379	100.0	.6	-	2.9	1.1	.9	-	.2	.3
36	Electrical machinery and equipment....	131	100.0	5.8	1.0	6.1	3.7	2.8	.6	-	.2
369	Miscellaneous electrical machinery, equipment, and supplies.....	71	100.0	9.7	1.4	8.4	5.2	4.7	1.0	.1	.3
37	Transportation equipment.....	137	100.0	.6	1.3	1.8	3.9	4.1	.5	.6	.7
371	Motor vehicles and motor vehicle equipment.....	129	100.0	.6	1.3	1.9	3.9	4.3	.5	.6	.7
38	Instruments, photographic goods, optical goods, watches, and clocks....	2	100.0	.2	.5	3.5	.2	1.7	.1	-	-

See footnotes at end of table.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15	16	17	18
	Production Areas 6, 7, and 8 combined, total.....	1.1	1.3	1.7	2.1	1.0	0.5	2.8	0.4	0.4	1.0
	Production Area 6, total.....	.5	.6	1.9	2.5	.7	.4	2.1	.3	.2	.9
	Production Area 7, total.....	.8	1.6	.9	2.1	1.8	.5	2.0	.5	.7	.9
	Production Area 8, total.....	2.2	2.4	1.8	1.5	1.3	.5	4.3	.6	.5	1.2
20	Food and kindred products.....	1.1	.2	2.6	3.9	.5	.9	2.2	.8	.2	1.0
201	Meat, poultry, and small game; fresh, chilled or frozen.....	.6	.3	-	-	-	-	10.7	-	-	-
22	Basic textiles.....	-	1.7	.2	-	3.1	1.0	3.3	.5	7.1	.3
23	Apparel, including knit apparel, and other finished textile products.....	.1	.3	4.0	1.8	1.7	1.1	4.0	1.0	.2	.3
231	Men's, youths', and boys' clothing....	-	.3	.2	3.7	2.5	1.5	1.1	1.7	.1	.1
233	Women's, misses', girls', and infants' clothing.....	.1	.2	26.2	.4	.2	-	16.1	.2	-	1.3
25	Furniture and fixtures.....	.2	.6	.7	.1	.3	.1	4.3	.1	.2	.2
26	Pulp, paper, and allied products.....	.5	.3	.5	.2	.2	.2	2.6	.1	-	1.1
265	Containers, boxes, and related products, paperboard, fiberboard, and pulpboard.....	.5	.2	-	.2	.4	.3	1.3	.1	-	2.6
28	Chemicals and allied products.....	1.3	.6	1.0	1.6	1.6	.4	3.4	.3	.1	2.7
281	Industrial chemicals.....	.8	.3	2.0	2.8	3.0	1.0	7.5	.7	.1	4.4
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	.5	.6	.9	2.6	2.1	.3	3.8	.4	.1	-
285	Paints, varnishes, lacquers, enamels, and allied products.....	5.7	-	1.7	.3	1.2	.3	3.4	-	-	11.7
29	Petroleum and coal products.....	1.5	2.7	1.8	1.8	.1	-	-	-	-	-
30	Rubber and miscellaneous plastics products.....	.4	.4	1.4	.3	1.2	.5	2.6	.9	.3	.2
307	Miscellaneous plastic products.....	.5	.5	1.7	.1	.9	.7	.7	.1	.1	.1
31	Leather and leather products.....	-	.2	1.7	.2	2.3	.2	1.7	.6	1.3	7.5
314	Footwear (except rubber).....	-	.2	.7	.3	1.7	.3	2.1	.5	1.5	11.2
332*	Iron and steel castings.....	.2	.8	1.7	13.9	-	1.6	1.2	.8	2.7	-
34	Fabricated metal products.....	.2	.5	.3	.9	.3	.2	1.7	1.1	.9	.6
349	Miscellaneous fabricated metal products.....	-	2.3	.4	2.2	.2	.1	2.2	.5	1.2	3.1
35	Machinery, except electrical.....	-	5.3	.1	.1	.3	1.7	7.3	-	2.0	.3
36	Electrical machinery and equipment....	3.1	1.0	5.6	1.9	2.7	.1	15.2	.1	.4	.1
369	Miscellaneous electrical machinery, equipment, and supplies.....	4.6	1.3	10.3	2.6	2.8	.1	14.8	.1	-	-
37	Transportation equipment.....	1.1	1.8	2.9	3.2	6.6	.7	.1	.2	.1	2.3
371	Motor vehicles and motor vehicle equipment.....	1.2	1.9	3.0	3.4	6.8	.7	-	.1	-	2.5
38	Instruments, photographic goods, optical goods, watches, and clocks...	.2	2.8	.8	.8	1.9	.2	4.6	.2	.6	.1

See footnotes at end of table.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued								
		19	20	21	22	23	24	25	30	50
	Production Areas 6, 7, and 8 combined, total.....	0.7	1.7	1.2	0.8	0.8	4.7	6.1	34.7	19.8
	Production Area 6, total.....	.4	.5	.8	.2	.5	3.8	3.8	43.6	21.8
	Production Area 7, total.....	1.8	3.6	1.3	.2	3.4	8.5	13.2	19.9	14.3
	Production Area 8, total.....	.7	2.7	1.7	2.2	.2	4.4	6.4	27.2	19.3
20	Food and kindred products.....	.4	2.5	2.2	1.1	.8	.3	2.0	31.4	27.5
201	Meat, poultry, and small game; fresh, chilled or frozen.....	-	-	-	-	-	-	.1	32.9	23.5
22	Basic textiles.....	-	5.3	.2	-	1.8	16.7	2.1	13.4	22.4
23	Apparel, including knit apparel, and other finished textile products.....	1.4	4.0	2.0	.6	1.7	4.6	16.8	26.4	20.1
231	Men's, youths', and boys' clothing....	.4	6.3	3.9	.1	1.1	7.5	23.7	18.2	23.1
233	Women's, misses', girls', and infants' clothing.....	.5	1.3	-	.4	.4	1.2	12.5	3.7	7.5
25	Furniture and fixtures.....	.2	.4	3.6	-	-	2.5	45.6	7.6	19.3
26	Pulp, paper, and allied products.....	.5	.1	-	-	.1	4.9	.1	18.3	15.1
265	Containers, boxes, and related products, paperboard, fiberboard, and pulpboard.....	.9	.2	-	-	.2	11.7	.2	33.1	24.1
28	Chemicals and allied products.....	1.9	.5	2.5	.6	2.6	3.8	11.5	23.9	19.7
281	Industrial chemicals.....	2.4	2.3	11.5	-	-	16.4	3.8	12.7	15.3
284	Soap and detergents, cleaning preparations, perfumes, cosmetics and other toilet preparations.....	2.1	.3	.1	1.6	-	.8	3.5	34.7	13.7
285	Paints, varnishes, lacquers, enamels, and allied products.....	3.8	-	3.2	-	3.0	3.9	.1	34.9	17.8
29	Petroleum and coal products.....	-	-	-	-	-	-	-	68.4	15.8
30	Rubber and miscellaneous plastics products.....	.6	3.4	3.3	.6	.5	1.7	39.0	29.4	6.7
307	Miscellaneous plastic products.....	.8	1.2	2.4	-	.1	1.6	51.1	25.0	5.6
31	Leather and leather products.....	.7	.9	.4	-	1.1	3.3	17.1	28.9	22.3
314	Footwear (except rubber).....	1.7	.5	.7	-	1.8	2.9	25.4	21.3	16.5
332*	Iron and steel castings.....	-	-	.8	-	-	14.5	-	9.9	20.6
34	Fabricated metal products.....	1.2	.5	.1	.1	4.5	15.1	21.5	21.1	15.4
349	Miscellaneous fabricated metal products.....	18.6	.2	1.6	2.1	.6	11.1	4.7	19.3	7.6
35	Machinery, except electrical.....	.1	1.1	1.0	5.6	-	.2	1.3	42.5	25.1
36	Electrical machinery and equipment....	1.7	1.1	1.0	1.0	-	1.0	4.2	25.9	13.7
369	Miscellaneous electrical machinery, equipment, and supplies.....	3.1	.1	.1	.7	-	-	-	15.6	13.0
37	Transportation equipment.....	9.6	2.8	.3	.1	2.7	.4	6.1	23.3	22.2
371	Motor vehicles and motor vehicle equipment.....	10.0	2.9	-	.1	2.8	.2	6.2	22.5	21.9
38	Instruments, photographic goods, optical goods, watches, and clocks...	.3	5.7	8.4	1.0	6.4	1.8	9.6	37.1	11.3

*TCC 33 not shown.

¹See description of production areas on page 313.²Includes only those shipments that originated in one city in this area and terminated in another city in this area.

Production Area 9

Production Area 9 consists of three standard metropolitan statistical areas: Syracuse, N.Y.; Utica-Rome, N.Y.; and Albany-Schenectady-Troy, N.Y.

Data are based on 78 plants from which 10,349 shipping documents were sampled. The sampling variability on the estimated 4.4 million tons shipped from Production Area 9 is ± 18.2 percent.

Major commodity groups shipped from Production Area 9 and their area of destinations are summarized in table A below.

Table A.—DISTRIBUTION OF TONS OF COMMODITIES SHIPPED FROM PRODUCTION AREA 9, BY AREA OF DESTINATION

TCC code	Commodity class	Total tons (thousands)	Percent distribution by destination area			
			Production Area 9 ¹	Other production areas	Other SMSA's	Balance of country
	Total.....	² 4,397	12.8	45.9	14.0	27.3
20	Food and kindred products.....	714	10.5	47.1	9.2	33.2
26	Pulp, paper, and allied products.....	1,012	15.9	33.6	25.4	25.1
33	Primary metal products.....	314	5.2	71.6	12.6	10.6
34	Fabricated metal products.....	472	45.9	30.7	5.6	17.8
35	Machinery, except electrical.....	147	4.5	40.5	42.4	12.6
39	Miscellaneous products of manufacturing.....	146	1.1	72.8	19.5	6.6

¹Includes only those shipments that originated in one city in this area and terminated in another city in this area.

²Includes commodity classes not shown separately.

TABLE 1. Tons of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by means of transport								Sampling variability code ¹
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown	
	Total.....	4,397	100.0	36.6	34.7	26.4	-	1.0	1.1	0.2	
20	Food and kindred products.....	714	100.0	10.9	11.3	77.1	-	-	-	.7	e
26	Pulp, paper, and allied products.....	1,012	100.0	45.5	52.9	1.0	-	.1	.4	.1	e
33	Primary metal products.....	314	100.0	17.9	71.7	9.9	-	.4	.1	-	b
335	Nonferrous metal basic shapes.....	215	100.0	19.4	67.6	12.3	-	.6	.1	-	c
3357	Nonferrous wire (including insulated wire).....	104	100.0	28.8	63.5	6.1	0.1	1.3	.2	-	e
34	Fabricated metal products.....	472	100.0	1.2	22.5	76.1	-	-	.2	-	e
35	Machinery, except electrical.....	147	100.0	34.9	52.9	1.3	.2	-	10.4	.3	c
39	Miscellaneous products of manufacturing.....	146	100.0	23.0	47.0	21.8	.1	6.7	1.3	.1	e

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 2. Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Ton-miles (millions)	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
	Total.....	1,750	100.0	56.9	25.7	9.0	0.1	4.8	3.4	0.1
20	Food and kindred products.....	130	100.0	32.7	14.4	52.8	-	-	-	.1
26	Pulp, paper, and allied products.....	418	100.0	81.8	16.2	.4	-	.7	.9	-
33	Primary metal products.....	195	100.0	45.9	49.9	3.1	-	1.0	.1	-
335	Nonferrous metal basic shapes.....	147	100.0	53.1	41.8	3.7	-	1.3	.1	-
3357	Nonferrous wire (including insulated wire).	93	100.0	65.7	30.0	2.1	.1	2.0	.1	-
34	Fabricated metal products.....	78	100.0	8.8	43.1	47.0	.1	-	1.0	-
35	Machinery, except electrical.....	120	100.0	54.9	24.0	.4	.3	-	20.3	.1
39	Miscellaneous products of manufacturing....	116	100.0	51.8	30.9	4.3	.1	11.9	1.0	-

TABLE 3. Tons of Shipments—Distance and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by distance of shipment								Sampling variability code ¹
			All distances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over	
	Total.....	4,397	100.0	21.7	32.5	13.3	6.3	17.9	3.4	4.9	
20	Food and kindred products.....	714	100.0	29.0	51.7	9.4	2.1	6.7	.7	.4	e
26	Pulp, paper, and allied products.....	1,012	100.0	27.2	23.6	9.0	4.8	28.4	5.3	1.7	e
33	Primary metal products.....	314	100.0	6.0	25.5	14.6	10.5	27.5	4.0	11.9	b
335	Nonferrous metal basic shapes.....	215	100.0	6.4	26.3	13.4	9.8	23.5	5.4	15.2	c
3357	Nonferrous wire (including insulated wire).....	104	100.0	1.5	27.6	8.6	4.9	25.8	6.1	25.5	e
34	Fabricated metal products.....	472	100.0	56.1	26.9	7.4	4.0	3.0	.9	1.7	e
35	Machinery, except electrical.....	147	100.0	7.5	13.1	19.4	9.1	20.9	7.2	22.8	c
39	Miscellaneous products of manufacturing.....	146	100.0	11.0	12.9	6.4	12.2	28.4	13.1	16.0	e

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5	6	7	8
	Total.....	4,397	100.0	4.8	5.4	5.8	4.5	3.2	0.2	0.2	0.3
20	Food and kindred products.....	714	100.0	10.3	14.5	10.6	.5	1.1	.1	.1	.2
26	Pulp, paper, and allied products.....	1,012	100.0	1.4	1.9	4.0	2.5	2.0	.2	.5	.2
33	Primary metal products.....	314	100.0	4.2	3.0	4.8	7.0	2.9	.6	.3	.8
335	Nonferrous metal basic shapes.....	215	100.0	4.0	3.1	6.3	6.3	2.8	.8	.2	1.0
3357	Nonferrous wire (including insulated wire).....	104	100.0	2.1	4.5	9.6	3.6	2.5	.2	.1	.6
34	Fabricated metal products.....	472	100.0	10.8	2.9	4.7	.3	.8	.1	-	.1
35	Machinery, except electrical.....	147	100.0	.6	.9	4.6	1.3	2.2	-	.7	3.8
39	Miscellaneous products of manufacturing.....	146	100.0	2.5	10.2	6.5	1.4	.5	.2	-	.1

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9 ²	10	11	12	13	14	15	16	17	18
	Total.....	12.8	4.8	1.7	0.8	2.6	1.8	4.4	0.1	0.4	0.5
20	Food and kindred products.....	10.5	.6	1.4	.9	1.1	1.1	2.4	-	.5	.5
26	Pulp, paper, and allied products.....	15.9	6.2	2.4	.1	1.6	4.3	4.2	.2	.8	.3
33	Primary metal products.....	5.2	7.6	5.0	3.4	2.0	3.6	15.1	-	.4	.6
335	Nonferrous metal basic shapes.....	6.0	9.0	.9	2.5	2.7	5.2	9.1	-	.6	-
3357	Nonferrous wire (including insulated wire).....	1.0	8.0	1.3	-	1.4	3.4	15.6	-	1.2	-
34	Fabricated metal products.....	45.9	4.6	.2	2.3	.9	-	1.7	-	-	-
35	Machinery, except electrical.....	4.5	2.3	.6	.1	1.2	6.5	.8	.6	-	1.1
39	Miscellaneous products of manufacturing.....	1.1	.9	.8	1.5	11.3	3.6	11.4	1.1	.9	1.9

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									Sampling variability code ³
		19	20	21	22	23	24	25	30	50	
	Total.....	1.2	0.7	0.1	0.3	0.2	0.9	1.0	14.0	27.3	
20	Food and kindred products.....	.9	.2	.1	-	-	-	-	9.2	33.2	e
26	Pulp, paper, and allied products.....	.1	-	-	-	.1	-	.6	25.4	25.1	e
33	Primary metal products.....	1.8	.8	.8	1.0	.9	.7	4.3	12.6	10.6	b
335	Nonferrous metal basic shapes.....	2.5	1.2	1.2	1.4	1.3	1.0	6.3	15.4	9.2	c
3357	Nonferrous wire (including insulated wire).....	1.2	2.5	2.5	2.9	2.8	2.1	10.0	12.3	8.6	e
34	Fabricated metal products.....	.2	.2	-	-	.4	-	.5	5.6	17.8	e
35	Machinery, except electrical.....	2.0	.7	.9	-	.1	.6	8.9	42.4	12.6	c
39	Miscellaneous products of manufacturing.....	.1	6.6	.3	3.4	1.1	5.0	1.5	19.5	6.6	e

¹See description of production areas on page 313.²Includes only those shipments that originated in one city in this area and terminated in another city in this area.³Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 5. Ton-Miles of Shipments—Production Area Destination and Commodity: 1963

TCC code	Commodity	Ton-miles (millions)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5	6	7	8
	Total.....	1,750	100.0	2.1	1.7	2.5	1.9	1.8	0.1	0.1	0.2
20	Food and kindred products.....	130	100.0	8.6	6.7	10.0	.4	1.5	.2	.1	.2
26	Pulp, paper, and allied products.....	418	100.0	.7	.6	1.7	1.0	1.1	.1	.2	.1
33	Primary metal products.....	195	100.0	1.5	.8	1.4	2.1	1.0	.3	.1	.3
335	Nonferrous metal basic shapes.....	147	100.0	1.3	.7	1.7	1.7	.9	.3	.1	.4
3357	Nonferrous wire (including insulated wire).....	93	100.0	.5	.7	2.0	.7	.6	.1	-	.2
34	Fabricated metal products.....	78	100.0	9.2	2.2	5.1	.3	1.0	.2	-	.1
35	Machinery, except electrical.....	120	100.0	.2	.1	1.0	.3	.6	-	.2	1.0
39	Miscellaneous products of manufacturing.....	116	100.0	.6	1.3	1.4	.3	.1	.1	-	-

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9 ²	10	11	12	13	14	15	16	17	18
	Total.....	1.9	1.7	1.2	0.6	2.5	2.7	7.4	0.2	0.8	1.1
20	Food and kindred products.....	3.0	.5	2.3	1.3	2.0	3.1	8.6	-	2.5	2.1
26	Pulp, paper, and allied products.....	1.7	2.1	1.8	-	1.6	6.2	7.3	.3	1.8	.6
33	Primary metal products.....	.5	1.8	2.5	1.6	1.2	3.2	16.3	-	.6	.7
335	Nonferrous metal basic shapes.....	.5	2.0	.4	1.1	1.6	4.1	8.3	-	.8	-
3357	Nonferrous wire (including insulated wire).....	.1	1.3	.5	-	.6	2.0	10.7	-	1.2	-
34	Fabricated metal products.....	13.2	3.7	.3	4.5	2.1	.1	6.6	.1	.1	.1
35	Machinery, except electrical.....	.1	.3	.2	-	.5	4.6	.6	.5	-	1.0
39	Miscellaneous products of manufacturing.....	.1	.1	.3	.6	5.4	2.6	9.1	.8	1.1	2.1

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued								
		19	20	21	22	23	24	25	30	50
	Total.....	2.5	2.5	0.5	1.0	1.2	5.7	6.1	28.8	21.2
20	Food and kindred products.....	4.1	1.7	.8	-	-	-	-	12.6	27.7
26	Pulp, paper, and allied products.....	.3	-	-	-	.7	-	3.7	55.5	10.9
33	Primary metal products.....	2.3	1.8	1.9	2.4	3.4	2.8	16.4	24.5	8.6
335	Nonferrous metal basic shapes.....	3.0	2.4	2.5	3.1	4.4	3.6	21.8	27.0	6.3
3357	Nonferrous wire (including insulated wire).....	1.1	3.8	4.0	4.9	7.0	5.7	26.2	22.2	3.9
34	Fabricated metal products.....	.9	1.4	-	-	6.1	.6	7.3	9.0	25.8
35	Machinery, except electrical.....	1.9	1.1	1.5	.1	.2	1.9	25.7	46.7	9.7
39	Miscellaneous products of manufacturing.....	.1	11.8	.5	7.0	3.3	16.2	4.6	27.7	2.8

¹See description of production areas on page 313.²Includes only those shipments that originated in one city in this area and terminated in another city in this area.

Production Area 10

Production Area 10 consists of two standard metropolitan statistical areas: Buffalo, N.Y., and Rochester, N.Y.

Data are based on 122 plants from which 16,272 shipping documents were sampled. The sampling variability on the estimated 14.0 million tons shipped from Production Area 10 is ± 15.2 percent.

Major commodity groups shipped from Production Area 10 and their area of destinations are summarized in table A below.

Table A.—DISTRIBUTION OF TONS OF COMMODITIES SHIPPED FROM PRODUCTION AREA 10, BY AREA OF DESTINATION

TCC code	Commodity class	Total tons (thousands)	Percent distribution by destination area			
			Production Area 10 ¹	Other production areas	Other SMSA's	Balance of country
	Total.....	² 13,960	8.3	57.6	11.5	22.6
20	Food and kindred products.....	2,528	10.3	49.2	13.9	26.6
23	Apparel, including knit apparel, and other finished textile products.....	7	1.5	46.9	29.0	22.6
26	Pulp, paper, and allied products.....	398	7.3	52.8	12.3	27.6
28	Chemicals and allied products.....	3,170	7.9	58.9	8.7	24.5
30	Rubber and miscellaneous plastics products....	204	.7	53.0	25.3	21.0
33	Primary metal products.....	3,285	4.7	64.2	14.3	16.8
34	Fabricated metal products.....	828	6.9	56.9	11.4	24.8
35	Machinery, except electrical.....	240	4.3	52.3	15.6	27.8
36	Electrical machinery and equipment.....	214	10.9	44.9	19.2	25.0
37	Transportation equipment.....	1,000	.2	73.3	15.9	10.6

¹Includes only those shipments that originated in one city in this area and terminated in another city in this area.

²Includes commodity classes not shown separately.

TABLE 1. Tons of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by means of transport								Sampling variability code ¹
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown	
	Total.....	13,960	100.0	45.0	34.3	10.9	0.1	8.1	1.1	0.5	
20	Food and kindred products.....	2,528	100.0	39.4	36.1	24.3	-	-	.2	-	c
203	Canned and preserved fruits, vegetables, and seafoods.....	604	100.0	4.3	85.8	9.9	-	-	-	-	c
23	Apparel, including knit apparel, and other finished textile products.....	7	100.0	-	70.9	-	1.1	-	27.2	.8	e
26	Pulp, paper, and allied products.....	398	100.0	55.3	40.8	3.7	-	-	.2	-	d
28	Chemicals and allied products.....	3,170	100.0	52.0	26.0	7.8	-	13.2	.8	.2	c
281	Industrial chemicals.....	2,191	100.0	61.8	16.1	2.6	-	19.0	.5	-	d
289	Miscellaneous chemical products.....	180	100.0	29.0	52.5	6.7	.6	-	7.4	3.8	c
2899	Chemical products, n.e.c.....	168	100.0	29.1	53.4	6.9	.6	-	7.8	2.2	b
30	Rubber and miscellaneous plastics products.....	204	100.0	30.2	59.1	10.1	.1	.1	.4	-	d
33	Primary metal products.....	3,285	100.0	53.0	31.1	.6	-	11.6	2.2	1.5	a
34	Fabricated metal products.....	828	100.0	34.9	52.7	5.5	.5	3.5	2.9	-	c
35	Machinery, except electrical.....	240	100.0	14.9	80.5	1.1	.3	-	2.6	.6	d
359	Miscellaneous machinery and parts (except electrical).....	75	100.0	38.1	57.0	3.4	.3	-	1.2	-	b
35999	Machinery and parts, n.e.c. (except electrical).....	52	100.0	40.7	53.1	4.9	.3	-	1.0	-	b
36	Electrical machinery and equipment...	214	100.0	47.4	37.8	10.3	.4	.1	2.5	1.5	c
37	Transportation equipment.....	1,000	100.0	88.7	10.8	.1	.2	-	-	.2	a

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 2. Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Ton-miles (millions)	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Un-known
	Total.....	4,647	100.0	56.9	30.9	4.4	0.2	5.6	1.6	0.4
20	Food and kindred products.....	694	100.0	53.3	36.9	9.0	-	-	.8	-
203	Canned and preserved fruits, vegetables, and seafoods.....	189	100.0	4.7	94.3	1.0	-	-	-	-
23	Apparel, including knit apparel, and other finished textile products.....	4	100.0	-	67.3	-	1.4	-	30.9	.4
26	Pulp, paper, and allied products.....	148	100.0	63.6	31.8	4.4	-	-	.2	-
28	Chemicals and allied products.....	1,166	100.0	63.0	21.4	3.4	.2	10.8	.9	.3
281	Industrial chemicals.....	795	100.0	67.5	14.3	1.9	-	15.8	.5	-
289	Miscellaneous chemical products.....	93	100.0	43.2	40.2	4.3	2.3	-	6.8	3.2
2899	Chemical products, n.e.c.....	87	100.0	43.7	40.6	3.9	2.4	-	7.1	2.3
30	Rubber and miscellaneous plastics products.....	109	100.0	45.1	45.3	8.6	.1	-	.9	-
33	Primary metal products.....	937	100.0	58.6	27.2	.6	.1	9.7	2.6	1.2
34	Fabricated metal products.....	346	100.0	34.7	58.1	2.2	.8	1.8	2.4	-
35	Machinery, except electrical.....	167	100.0	22.7	72.2	-	.3	-	4.5	.3
359	Miscellaneous machinery and parts (except electrical).....	39	100.0	65.1	32.9	.1	.3	.1	1.5	-
35999	Machinery and parts, n.e.c. (except electrical).....	27	100.0	69.7	28.1	.2	.3	-	1.7	-
36	Electrical machinery and equipment.....	157	100.0	72.5	21.3	1.3	.4	.3	3.6	.6
37	Transportation equipment.....	527	100.0	91.2	8.1	-	.3	-	.1	.3

TABLE 3. Tons of Shipments—Distance and Commodity:
1963

TCC code	Commodity	Tons (thous.)	Percent distribution by distance of shipment								Samp- ling vari- ability code ¹
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over	
	Total.....	13,960	100.0	16.9	15.9	32.7	22.4	7.5	2.0	2.6	
20	Food and kindred products.....	2,528	100.0	24.3	17.4	32.7	17.6	4.4	2.5	1.1	c
203	Canned and preserved fruits, vegetables, and seafoods.....	604	100.0	16.2	3.7	51.6	15.9	8.4	4.2	-	c
23	Apparel, including knit apparel, and other finished textile products.....	7	100.0	2.5	2.5	36.2	9.9	28.1	17.9	2.9	e
26	Pulp, paper, and allied products.....	398	100.0	10.8	8.1	30.4	36.5	10.1	2.0	2.1	d
28	Chemicals and allied products.....	3,170	100.0	13.7	13.1	19.7	39.8	9.2	1.4	3.1	c
281	Industrial chemicals.....	2,191	100.0	8.1	9.8	22.0	48.3	8.9	1.0	1.9	d
289	Miscellaneous chemical products.....	180	100.0	4.5	7.0	23.7	34.0	20.2	4.7	5.9	c
2899	Chemical products, n.e.c.....	168	100.0	4.8	7.1	23.5	33.5	20.6	4.2	6.3	b
30	Rubber and miscellaneous plastics products.....	204	100.0	.9	7.6	25.9	29.8	25.5	6.6	3.7	d
33	Primary metal products.....	3,285	100.0	6.4	16.6	53.6	18.1	3.0	1.4	.9	a
34	Fabricated metal products.....	828	100.0	10.3	24.1	26.1	21.5	8.9	3.7	5.4	c
35	Machinery, except electrical.....	240	100.0	4.5	.8	35.1	17.7	19.3	9.0	13.6	d
359	Miscellaneous machinery and parts (except electrical).....	75	100.0	13.0	.4	49.5	17.2	5.6	2.6	11.7	b
35999	Machinery and parts, n.e.c. (except electrical).....	52	100.0	13.8	.6	57.9	8.6	4.3	.7	14.1	b
36	Electrical machinery and equipment...	214	100.0	11.9	4.0	18.3	19.4	25.4	3.1	17.9	c
37	Transportation equipment.....	1,000	100.0	.4	7.5	40.3	21.2	21.4	3.0	6.2	a

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5	6	7	8
	Total.....	13,960	100.0	2.2	1.6	3.5	8.3	3.2	1.0	0.5	0.8
20	Food and kindred products.....	2,528	100.0	4.4	1.9	8.0	8.9	4.3	1.5	-	.3
203	Canned and preserved fruits, vegetables, and seafoods.....	604	100.0	6.6	3.3	10.4	13.9	7.7	2.9	.1	-
23	Apparel, including knit apparel, and other finished textile products..	7	100.0	1.8	.4	8.1	6.1	4.6	.8	.1	.1
26	Pulp, paper, and allied products.....	398	100.0	.5	2.6	7.7	9.1	1.8	1.3	-	.9
28	Chemicals and allied products.....	3,170	100.0	2.9	1.2	1.6	22.1	5.9	.1	.6	1.0
281	Industrial chemicals.....	2,191	100.0	3.2	1.1	.7	30.0	7.9	.1	.8	.9
289	Miscellaneous chemical products.....	180	100.0	4.1	4.9	9.6	9.2	2.3	.2	.1	3.3
2899	Chemical products, n.e.c.....	168	100.0	4.4	5.2	8.3	9.8	2.5	.2	.1	3.5
30	Rubber and miscellaneous plastics products.....	204	100.0	3.1	11.6	1.7	2.8	3.0	1.0	.3	.3
33	Primary metal products.....	3,285	100.0	1.1	2.1	1.1	1.4	2.1	1.2	.7	2.0
34	Fabricated metal products.....	828	100.0	2.0	3.0	2.6	2.6	1.4	1.1	1.2	.5
35	Machinery, except electrical.....	240	100.0	.5	.1	17.6	2.3	2.7	.4	.3	.2
359	Miscellaneous machinery and parts (except electrical).....	75	100.0	.2	.1	18.3	1.3	6.3	.3	-	-
35999	Machinery and parts, n.e.c. (except electrical).....	52	100.0	.3	.1	25.1	1.2	.4	.4	.1	-
36	Electrical machinery and equipment....	214	100.0	1.6	.9	5.1	2.6	.7	.1	.5	.6
37	Transportation equipment.....	1,000	100.0	3.0	-	4.4	7.2	4.4	4.4	1.4	-
TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10 ²	11	12	13	14	15	16	17	18
	Total.....	4.6	8.3	9.4	1.3	10.5	1.4	4.0	0.5	0.3	0.7
20	Food and kindred products.....	5.4	10.3	5.2	2.2	2.3	.3	2.7	-	-	.3
203	Canned and preserved fruits, vegetables, and seafoods.....	3.1	13.2	2.2	2.2	4.9	.8	3.1	-	-	1.2
23	Apparel, including knit apparel, and other finished textile products..	2.0	1.5	1.1	1.8	2.4	.8	1.7	2.1	1.0	3.4
26	Pulp, paper, and allied products.....	5.6	7.3	2.5	-	1.3	8.3	6.0	.7	-	.3
28	Chemicals and allied products.....	5.1	7.9	3.6	.5	.9	.7	7.0	.4	.4	.7
281	Industrial chemicals.....	1.4	7.2	4.6	.5	.8	.6	7.7	.3	.4	.5
289	Miscellaneous chemical products.....	.3	4.3	.6	2.1	2.5	2.5	7.8	.9	-	-
2899	Chemical products, n.e.c.....	.3	4.7	.6	2.2	2.1	2.6	8.4	.9	-	-
30	Rubber and miscellaneous plastics products.....	.5	.7	5.3	.2	7.6	.5	4.9	.3	1.0	1.1
33	Primary metal products.....	1.4	4.7	10.3	2.2	31.0	1.6	4.6	.1	.2	.1
34	Fabricated metal products.....	3.3	6.9	10.9	2.4	8.8	1.4	3.5	6.1	.3	.1
35	Machinery, except electrical.....	.2	4.3	.7	.3	11.6	5.0	1.4	.6	.2	1.6
359	Miscellaneous machinery and parts (except electrical).....	-	12.9	.8	.6	28.0	2.1	.3	1.7	-	2.2
35999	Machinery and parts, n.e.c. (except electrical).....	.1	13.7	1.2	.9	31.6	-	.2	2.4	-	-
36	Electrical machinery and equipment....	1.4	10.9	2.0	1.2	10.2	.1	1.1	-	.2	2.5
37	Transportation equipment.....	.1	.2	2.6	-	16.6	5.3	2.0	.3	1.8	3.9

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									Sampling variability code ³
		19	20	21	22	23	24	25	30	50	
	Total.....	1.0	0.5	0.4	0.1	0.1	0.7	1.0	11.5	22.6	
20	Food and kindred products.....	.2	.4	.2	.2	-	.5	-	13.9	26.6	c
203	Canned and preserved fruits, vegetables, and seafoods.....	.7	.3	.8	-	-	-	-	17.5	5.1	c
23	Apparel, including knit apparel, and other finished textile products..	3.1	.6	2.7	.3	.6	.1	1.2	29.0	22.6	e
26	Pulp, paper, and allied products.....	.4	1.8	-	-	-	1.8	.2	12.3	27.6	d
28	Chemicals and allied products.....	.8	.2	.6	.3	.1	.7	1.5	8.7	24.5	c
281	Industrial chemicals.....	.6	-	.5	.3	.2	.4	.7	8.9	19.7	d
289	Miscellaneous chemical products.....	1.9	.5	1.4	.9	-	3.6	.9	14.4	21.7	c
2899	Chemical products, n.e.c.....	2.0	.5	1.5	1.0	-	3.8	1.0	14.9	19.5	b
30	Rubber and miscellaneous plastics products.....	-	3.6	1.2	-	-	3.0	-	25.3	21.0	d
33	Primary metal products.....	.1	-	.5	-	-	-	.4	14.3	16.8	a
34	Fabricated metal products.....	.2	.1	.6	.3	.2	1.1	3.2	11.4	24.8	c
35	Machinery, except electrical.....	1.1	.8	.7	.1	.4	2.3	1.2	15.6	27.8	d
359	Miscellaneous machinery and parts (except electrical).....	.1	2.2	-	-	-	.1	2.1	16.2	4.2	b
35999	Machinery and parts, n.e.c. (except electrical).....	-	.3	-	-	-	.1	.1	16.4	5.4	b
36	Electrical machinery and equipment....	4.4	.4	.4	-	.5	4.1	4.3	19.2	25.0	c
37	Transportation equipment.....	7.7	2.6	-	-	.2	2.2	3.2	15.9	10.6	a

¹See description of production areas on page 313.²Includes only those shipments that originated in one city in this area and terminated in another city in this area.³Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**

TCC code	Commodity	Ton-miles (millions)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5	6	7	8
	Total.....	4,647	100.0	2.5	1.5	2.9	7.1	2.7	0.9	0.4	0.5
20	Food and kindred products.....	694	100.0	5.4	2.1	8.0	8.3	4.2	1.5	-	.2
203	Canned and preserved fruits, vegetables, and seafoods.....	189	100.0	7.1	2.9	8.5	11.1	6.4	2.6	.1	-
23	Apparel, including knit apparel, and other finished textile products..	4	100.0	1.0	.2	3.6	2.4	1.9	.4	-	-
26	Pulp, paper, and allied products.....	148	100.0	.5	2.0	5.9	7.0	1.4	1.0	-	.6
28	Chemicals and allied products.....	1,166	100.0	3.2	1.0	1.3	17.9	4.7	.1	.4	.6
281	Industrial chemicals.....	795	100.0	3.6	.9	.6	24.9	6.4	.1	.5	.5
289	Miscellaneous chemical products.....	93	100.0	3.2	2.8	5.6	4.7	1.2	.1	-	1.3
2899	Chemical products, n.e.c.....	87	100.0	3.4	3.0	4.8	4.9	1.3	.1	-	1.4
30	Rubber and miscellaneous plastics products.....	109	100.0	2.3	7.0	.9	1.5	1.5	.5	.1	.1
33	Primary metal products.....	937	100.0	1.6	2.4	1.2	1.3	2.0	1.2	.6	1.5
34	Fabricated metal products.....	346	100.0	1.9	2.2	1.9	1.7	.9	.8	.7	.2
35	Machinery, except electrical.....	167	100.0	.3	.1	7.0	.9	1.0	.2	.1	.1
359	Miscellaneous machinery and parts (except electrical).....	39	100.0	.1	-	8.7	.6	3.1	.1	-	-
35999	Machinery and parts, n.e.c. (except electrical).....	27	100.0	.2	-	11.8	.6	.2	.2	-	-
36	Electrical machinery and equipment....	157	100.0	.7	.4	1.9	.9	.3	-	.1	.2
37	Transportation equipment.....	527	100.0	2.1	-	2.4	3.8	2.3	2.3	.6	-
TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10 ²	11	12	13	14	15	16	17	18
	Total.....	2.6	0.8	4.2	0.7	7.3	1.6	5.5	0.7	0.7	1.4
20	Food and kindred products.....	2.7	1.4	3.4	1.7	2.2	.4	5.1	-	.1	.8
203	Canned and preserved fruits, vegetables, and seafoods.....	1.1	1.6	1.5	1.6	4.4	1.0	5.0	-	.1	2.8
23	Apparel, including knit apparel, and other finished textile products..	.5	.1	.4	.7	1.1	.5	1.3	1.7	1.2	3.9
26	Pulp, paper, and allied products.....	2.4	.5	1.3	-	.8	7.8	7.4	.8	.1	.5
28	Chemicals and allied products.....	2.0	.7	1.5	.3	.6	.8	8.7	.5	.7	1.2
281	Industrial chemicals.....	.8	.6	2.0	.3	.5	.6	9.6	.4	.9	.9
289	Miscellaneous chemical products.....	.1	.4	.2	.8	1.1	1.9	7.6	.8	-	.1
2899	Chemical products, n.e.c.....	.1	.5	.2	.8	.9	2.1	8.1	.8	-	.1
30	Rubber and miscellaneous plastics products.....	.2	.1	1.9	.1	3.1	.3	4.1	.2	1.4	1.4
33	Primary metal products.....	1.0	.4	6.1	1.4	24.5	2.0	7.2	.1	.5	.3
34	Fabricated metal products.....	1.5	.8	4.2	1.0	4.6	1.1	3.8	6.7	.5	.2
35	Machinery, except electrical.....	-	.3	.2	.1	4.3	3.1	1.0	.4	.2	1.6
359	Miscellaneous machinery and parts (except electrical).....	-	1.4	.3	.3	14.4	1.8	.3	1.7	-	3.0
35999	Machinery and parts, n.e.c. (except electrical).....	-	1.3	.5	.4	15.5	-	.2	2.4	.1	.1
36	Electrical machinery and equipment....	.2	.9	.6	.3	4.1	-	.8	-	.2	2.5
37	Transportation equipment.....	-	-	1.0	-	7.4	3.9	1.7	.3	2.5	5.0

See footnotes at end of table.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued								
		19	20	21	22	23	24	25	30	50
	Total.....	2.1	1.9	1.4	0.5	0.5	4.8	6.7	18.6	19.5
20	Food and kindred products.....	.6	2.0	.9	.9	.1	3.9	.1	27.5	16.5
203	Canned and preserved fruits, vegetables, and seafoods.....	1.6	1.2	3.4	-	-	-	-	30.5	5.5
23	Apparel, including knit apparel, and other finished textile products..	3.8	1.3	6.2	.6	2.0	.5	4.3	39.1	21.3
26	Pulp, paper, and allied products.....	.7	5.8	.1	-	-	11.3	1.4	13.7	27.0
28	Chemicals and allied products.....	1.5	.8	2.1	1.1	.6	4.3	8.8	14.5	20.1
281	Industrial chemicals.....	1.2	-	1.7	1.2	.9	2.2	4.0	13.6	21.1
289	Miscellaneous chemical products.....	2.7	1.1	3.5	2.5	.2	15.8	4.1	21.2	17.0
2899	Chemical products, n.e.c.....	2.9	1.2	3.7	2.6	-	16.8	4.4	21.6	14.3
30	Rubber and miscellaneous plastics products.....	-	8.0	3.0	-	.1	12.9	.1	31.3	17.9
33	Primary metal products.....	.1	.1	2.2	-	-	.1	3.3	19.2	19.7
34	Fabricated metal products.....	.3	.3	1.9	.8	.9	5.9	16.5	17.9	20.8
35	Machinery, except electrical.....	1.2	1.4	1.4	.2	1.3	7.6	4.0	23.7	38.3
359	Miscellaneous machinery and parts (except electrical).....	.1	5.4	-	-	-	.5	8.9	45.9	3.4
35999	Machinery and parts, n.e.c (except electrical).....	-	.6	-	-	-	.5	.3	60.6	4.5
36	Electrical machinery and equipment....	4.3	.7	.7	-	1.6	12.9	13.1	28.0	24.6
37	Transportation equipment.....	10.3	6.0	-	-	.6	9.4	13.4	15.6	9.4

¹See description of production areas on page 313.²Includes only those shipments that originated in one city in this area and terminated in another city in this area.

Production Area 11

Production Area 11 consists of six standard metropolitan statistical areas: Cleveland, Ohio; Akron, Ohio; Canton, Ohio; Lorain-Elyria, Ohio; Youngstown-Warren, Ohio; and Erie, Pa.

Data are based on 308 plants from which 38,161 shipping documents were sampled. The sampling variability on the estimated 31.9 million tons shipped from Production Area 11 is ± 4.7 percent.

Major commodity groups shipped from Production Area 11 and their area of destinations are summarized in table A below.

Table A.—DISTRIBUTION OF TONS OF COMMODITIES SHIPPED FROM PRODUCTION AREA 11,
BY AREA OF DESTINATION

TCC code	Commodity class	Total tons (thousands)	Percent distribution by destination area			
			Production Area 11 ¹	Other produc- tion areas	Other SMSA's	Balance of country
	Total.....	² 31,934	12.2	45.7	15.8	26.3
20	Food and kindred products.....	757	25.3	33.3	7.1	34.3
25	Furniture and fixtures.....	353	7.6	58.3	14.8	19.3
26	Pulp, paper, and allied products.....	928	18.2	40.5	11.6	29.7
28	Chemicals and allied products.....	6,474	9.1	35.5	21.2	34.2
29	Petroleum and coal products.....	751	18.0	34.6	17.7	29.7
30	Rubber and miscellaneous plastics products...	927	9.5	52.0	25.6	12.9
32	Stone, clay, and glass products.....	1,769	5.3	47.2	9.2	38.3
33	Primary metal products.....	11,096	12.6	49.4	14.8	23.2
34	Fabricated metal products.....	1,999	10.5	46.4	18.2	24.9
35	Machinery, except electrical.....	2,708	13.4	47.9	16.1	22.6
36	Electrical machinery and equipment.....	265	18.0	52.7	13.6	15.7
37	Transportation equipment.....	2,585	3.3	67.8	14.8	14.1
38	Instruments, photographic goods, optical goods, watches, and clocks.....	17	.7	44.0	18.1	37.2
39	Miscellaneous products of manufacturing.....	151	2.7	45.3	9.7	42.3

¹Includes only those shipments that originated in one city in this area and terminated in another city in this area.

²Includes commodity classes not shown separately.

TABLE 1. Tons of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by means of transport								Sampling variability code ¹
			All means of transport	Rail	Motor carrier	Pri- vate truck	Air	Water	Other	Un- known	
	Total.....	31,934	100.0	43.3	46.5	8.1	-	1.2	0.7	0.2	
20	Food and kindred products.....	757	100.0	9.5	22.7	65.9	-	1.9	-	-	d
25	Furniture and fixtures.....	353	100.0	24.6	52.2	22.2	-	-	1.0	-	b
26	Pulp, paper, and allied products.....	928	100.0	19.5	59.4	20.8	0.2	-	.1	-	d
28	Chemicals and allied products.....	6,474	100.0	49.5	37.6	9.5	-	3.2	.1	.1	c
281	Industrial chemicals.....	2,431	100.0	75.4	19.5	4.7	-	.1	.1	.2	b
285	Paints, varnishes, lacquers, enamels, and allied products.....	471	100.0	1.9	60.0	15.8	-	22.0	.2	.1	d
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	319	100.0	2.5	72.7	22.8	-	1.7	.2	.1	e
289	Miscellaneous chemical products.....	2,340	100.0	41.1	41.8	16.7	-	.3	.1	-	e
29	Petroleum and coal products.....	751	100.0	50.1	47.7	2.2	-	-	-	-	d
291	Products of petroleum refining.....	468	100.0	76.0	20.5	3.5	-	-	-	-	d
30	Rubber and miscellaneous plastics products.....	927	100.0	27.1	68.5	3.9	.1	-	.4	-	a
301	Tires and inner tubes.....	628	100.0	35.6	61.2	3.1	-	-	.1	-	a
30111	Pneumatic tires.....	550	100.0	40.4	57.8	1.8	-	-	-	-	a
306	Miscellaneous fabricated rubber products.....	188	100.0	9.4	81.1	7.5	.6	-	1.3	.1	d
30619	Fabricated rubber products, n.e.c....	124	100.0	5.5	85.2	7.1	.9	-	1.2	.1	d
307	Miscellaneous plastic products.....	74	100.0	-	96.9	1.5	.2	.1	1.3	-	c
32	Stone, clay, and glass products.....	1,769	100.0	57.6	29.4	4.7	-	8.1	.1	.1	d
33	Primary metal products.....	11,096	100.0	39.6	56.9	3.0	-	.1	.3	.1	a
331	Steel works and rolling mill products.....	9,550	100.0	43.6	55.0	.8	-	.1	.3	.2	a
3312	Primary iron and steel products (except coke-oven products).....	9,125	100.0	43.8	54.9	.8	-	.1	.3	.1	a
33123	Sheet and strip, iron and steel (except tin mill products).....	4,234	100.0	31.7	67.4	.6	-	-	.2	.1	b
33124	Bars, bar shapes, and rods.....	2,239	100.0	35.9	62.2	.6	-	.4	.9	-	b
332	Iron and steel castings.....	291	100.0	4.1	93.5	2.3	.1	-	-	-	d
335	Nonferrous metal basic shapes.....	533	100.0	12.5	60.2	26.6	.3	-	.1	.3	d
336	Nonferrous and nonferrous base alloy castings.....	120	100.0	-	95.4	3.9	.1	-	.5	.1	d
3361	Aluminum and aluminum base alloy castings.....	102	100.0	-	95.6	3.8	.1	-	.5	-	e
339	Miscellaneous primary metal products	321	100.0	41.8	57.2	.3	-	-	.7	-	b
3391	Iron and steel forgings.....	297	100.0	45.1	54.6	.3	-	-	-	-	b
34	Fabricated metal products.....	1,999	100.0	17.6	64.9	11.2	.1	-	4.4	1.8	b
342	Cutlery, hand tools, and general hardware.....	146	100.0	14.4	67.8	10.2	.3	-	5.0	2.3	d
344	Structural and miscellaneous metal products.....	930	100.0	21.0	51.5	16.4	-	-	7.8	3.3	d
345	Bolts, nuts, screws, rivets, washers, and other industrial fasteners.....	428	100.0	13.2	83.2	2.3	.1	-	.9	.3	b
349	Miscellaneous fabricated metal products.....	138	100.0	12.8	79.0	5.9	.5	-	1.8	-	b
3494	Valves and pipe fittings (except plumbers' brass goods and fittings)	76	100.0	5.2	88.4	4.6	.4	-	1.4	-	c

See footnote at end of table.

TABLE 1. Tons of Shipments—Means of Transport and Commodity: 1963—Continued

TCC code	Commodity	Tons (thous.)	Percent distribution by means of transport								Sampling variability code ¹
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Un- known	
35	Machinery, except electrical.....	2,708	100.0	58.6	36.9	3.0	0.1	-	1.4	-	c
353	Construction, mining, and materials handling machinery and equipment....	1,044	100.0	49.3	46.2	2.4	.1	-	1.9	0.1	d
356	General industrial machinery and equipment.....	250	100.0	6.8	80.0	12.9	.1	-	.2	-	e
3566	Mechanical power transmission equipment, except ball and roller bearings.....	142	100.0	2.0	97.4	.4	.1	-	.1	-	e
359	Miscellaneous machinery and parts (except electrical).....	125	100.0	11.9	79.8	3.6	1.4	-	3.2	.1	d
36	Electrical machinery and equipment...	265	100.0	19.9	73.0	3.3	.4	-	3.4	-	c
362	Electrical industrial apparatus.....	101	100.0	13.5	78.2	3.8	.4	-	4.1	-	c
3621	Motors and generators.....	61	100.0	2.5	88.5	5.2	.4	-	3.4	-	c
364	Electric lighting and wiring equipment.....	103	100.0	29.2	66.1	3.7	.1	-	.9	-	d
367	Electronic components or accessories.	2	100.0	-	58.2	.1	20.1	0.1	21.5	-	e
37	Transportation equipment.....	2,585	100.0	65.4	31.6	2.2	.1	-	.4	.3	a
371	Motor vehicles and motor vehicle equipment.....	2,454	100.0	66.2	32.4	.7	.1	-	.4	.2	b
3714	Motor vehicle parts and accessories..	1,185	100.0	62.2	36.1	.8	.1	-	.4	.4	c
38	Instruments, photographic goods, optical goods, watches, and clocks..	17	100.0	11.8	81.7	2.9	.7	-	2.8	.1	c
39	Miscellaneous products of manufacturing.....	151	100.0	8.3	84.1	7.0	.2	-	.4	-	d

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 2. Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Ton-miles (millions)	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
	Total.....	10,278	100.0	56.9	35.3	3.4	0.1	2.2	1.9	0.2
20	Food and kindred products.....	92	100.0	20.4	26.6	47.8	-	5.2	-	-
25	Furniture and fixtures.....	156	100.0	52.7	39.6	6.2	-	-	1.5	-
26	Pulp, paper, and allied products.....	273	100.0	37.5	57.8	4.4	.1	-	.2	-
28	Chemicals and allied products.....	2,116	100.0	60.3	26.8	4.7	-	7.8	.3	.1
281	Industrial chemicals.....	660	100.0	82.8	11.0	5.5	-	.1	.5	.1
285	Paints, varnishes, lacquers, enamels, and allied products.....	176	100.0	2.5	47.8	3.8	-	45.5	.2	.2
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	81	100.0	4.7	80.3	8.2	-	6.1	.2	.5
289	Miscellaneous chemical products.....	642	100.0	55.3	35.9	7.8	-	.9	.1	-
29	Petroleum and coal products.....	220	100.0	63.7	36.0	.2	-	-	.1	-
291	Products of petroleum refining.....	160	100.0	85.7	14.1	.2	-	-	-	-
30	Rubber and miscellaneous plastics products.....	513	100.0	54.7	43.1	1.6	.1	-	.5	-
301	Tires and inner tubes.....	385	100.0	64.8	33.2	1.8	-	-	.2	-
30111	Pneumatic tires.....	350	100.0	70.6	28.1	1.2	-	-	.1	-
306	Miscellaneous fabricated rubber products...	76	100.0	21.2	74.4	1.8	.7	-	1.8	.1
30619	Fabricated rubber products, n.e.c.....	57	100.0	24.7	72.3	.3	.9	-	1.6	.2
307	Miscellaneous plastic products.....	29	100.0	-	97.3	.1	.2	-	2.4	-
32	Stone, clay, and glass products.....	578	100.0	70.6	19.7	1.9	-	7.6	.1	.1
33	Primary metal products.....	2,956	100.0	56.6	40.6	1.7	.1	.2	.6	.2
331	Steel works and rolling mill products.....	2,561	100.0	61.2	37.4	.4	-	.3	.5	.2
3312	Primary iron and steel products (except coke-oven products).....	2,497	100.0	61.8	37.0	.4	-	.3	.5	-
33123	Sheet and strip, iron and steel (except tin mill products).....	923	100.0	45.0	54.0	.5	-	-	.4	.1
33124	Bars, bar shapes, and rods.....	380	100.0	39.5	57.1	.4	-	.7	2.3	-
332	Iron and steel castings.....	49	100.0	5.6	93.6	.6	.2	-	-	-
335	Nonferrous metal basic shapes.....	194	100.0	35.1	48.0	15.9	.4	-	.2	.4
336	Nonferrous and nonferrous base alloy castings.....	24	100.0	-	95.7	3.1	.1	-	1.0	.1
3361	Aluminum and aluminum base alloy castings..	20	100.0	-	95.4	3.4	-	-	1.2	-
339	Miscellaneous primary metal products.....	81	100.0	34.8	59.5	-	.3	.1	5.3	-
3391	Iron and steel forgings.....	68	100.0	41.3	58.6	-	.1	-	-	-
34	Fabricated metal products.....	759	100.0	30.3	51.5	5.9	.2	-	11.2	.9
342	Cutlery, hand tools, and general hardware..	63	100.0	18.3	58.1	5.0	.5	-	17.3	.8
344	Structural and miscellaneous metal products.....	324	100.0	26.0	42.7	7.9	-	-	21.6	1.8
345	Bolts, nuts, screws, rivets, washers, and other industrial fasteners.....	170	100.0	45.3	53.3	.2	.1	-	1.1	-
349	Miscellaneous fabricated metal products...	56	100.0	21.4	74.8	.9	.9	-	2.0	-
3494	Valves and pipe fittings (except plumbers' brass goods and fittings).....	32	100.0	18.5	78.9	.4	.7	-	1.5	-
35	Machinery, except electrical.....	908	100.0	48.3	43.5	1.4	.2	-	6.6	-
353	Construction, mining, and materials handling machinery and equipment.....	512	100.0	54.1	36.4	1.7	.1	-	7.7	-
356	General industrial machinery and equipment.....	133	100.0	11.8	85.9	1.9	.2	-	.2	-
3566	Mechanical power transmission equipment, except ball and roller bearings.....	56	100.0	1.6	97.8	.3	.2	-	.1	-
359	Miscellaneous machinery and parts (except electrical).....	41	100.0	10.4	80.0	.7	2.8	-	5.9	.2

TABLE 2. **Ton-Miles of Shipments—Means of Transport and Commodity: 1963**—Continued

TCC code	Commodity	Ton- miles (millions)	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Un- known
36	Electrical machinery and equipment.....	165	100.0	47.6	46.7	0.8	0.6	-	4.3	-
362	Electrical industrial apparatus.....	59	100.0	35.6	56.0	1.5	.7	-	6.2	-
3621	Motors and generators.....	29	100.0	3.1	83.3	3.0	.8	-	9.8	-
364	Electric lighting and wiring equipment.....	63	100.0	70.0	28.6	.4	.1	-	.9	-
367	Electronic components or accessories.....	1	100.0	-	55.8	-	28.6	-	15.6	-
37	Transportation equipment.....	1,292	100.0	79.2	18.0	1.5	.2	-	.9	0.2
371	Motor vehicles and motor vehicle equipment.....	1,233	100.0	80.5	18.1	.2	.3	-	.8	.1
3714	Motor vehicle parts and accessories.....	532	100.0	73.1	24.9	.2	.1	-	1.6	.1
38	Instruments, photographic goods, optical goods, watches, and clocks.....	11	100.0	13.6	80.5	3.9	.5	-	1.4	.1
39	Miscellaneous products of manufacturing....	54	100.0	14.5	81.5	2.9	.6	-	.5	-

TABLE 3. Tons of Shipments—Distance and Commodity:
1963

TCC code	Commodity	Tons (thous.)	Percent distribution by distance of shipment								Samp- ling vari- ability code ¹
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over	
	Total.....	31,934	100.0	27.4	21.1	13.7	22.5	9.3	3.0	3.0	
20	Food and kindred products.....	757	100.0	57.1	23.9	12.7	5.7	.6	-	-	d
25	Furniture and fixtures.....	353	100.0	14.0	13.0	25.9	19.9	17.1	5.7	4.4	b
26	Pulp, paper, and allied products.....	928	100.0	32.8	9.4	16.2	29.5	7.8	2.4	1.9	d
28	Chemicals and allied products.....	6,474	100.0	21.2	16.7	17.2	30.2	9.7	4.4	.6	c
281	Industrial chemicals.....	2,431	100.0	20.7	19.8	20.0	32.4	5.7	.5	.9	b
285	Paints, varnishes, lacquers, enamels, and allied products.....	471	100.0	29.9	16.1	7.5	12.7	31.1	1.5	1.2	d
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	319	100.0	41.5	21.0	10.1	11.2	13.1	1.7	1.4	e
289	Miscellaneous chemical products.....	2,340	100.0	21.7	13.2	21.2	36.3	6.6	.6	.4	e
29	Petroleum and coal products.....	751	100.0	27.7	31.8	14.8	15.0	4.7	1.1	4.9	d
291	Products of petroleum refining.....	468	100.0	26.5	31.3	12.9	16.7	4.0	.8	7.8	d
30	Rubber and miscellaneous plastics products.....	927	100.0	14.4	17.7	9.2	24.0	18.4	5.0	11.3	a
301	Tires and inner tubes.....	628	100.0	14.4	14.5	8.9	23.4	19.9	4.1	14.8	a
30111	Pneumatic tires.....	550	100.0	14.3	14.1	9.2	25.1	16.4	4.4	16.5	a
306	Miscellaneous fabricated rubber products.....	188	100.0	14.2	26.1	9.1	29.1	12.3	4.2	5.0	d
30619	Fabricated rubber products, n.e.c....	124	100.0	14.9	22.8	9.8	28.3	12.2	4.9	7.1	d
307	Miscellaneous plastic products.....	74	100.0	20.1	9.2	17.0	28.7	18.7	3.6	2.7	c
32	Stone, clay, and glass products.....	1,769	100.0	14.8	27.4	9.4	23.8	21.6	2.3	.7	d
33	Primary metal products.....	11,096	100.0	30.7	26.1	14.3	18.4	5.9	2.9	1.7	a
331	Steel works and rolling mill products.....	9,550	100.0	30.9	25.7	14.5	18.3	5.9	3.0	1.7	a
3312	Primary iron and steel products (except coke-oven products).....	9,125	100.0	30.4	24.9	14.8	18.8	6.1	3.2	1.8	a
33123	Sheet and strip, iron and steel (except tin mill products).....	4,234	100.0	27.1	32.9	17.0	16.9	4.8	.6	.7	b
33124	Bars, bar shapes, and rods.....	2,239	100.0	40.0	27.1	13.8	17.7	1.1	.1	.2	b
332	Iron and steel castings.....	291	100.0	36.4	41.2	8.9	9.7	3.5	-	.3	d
335	Nonferrous metal basic shapes.....	533	100.0	26.8	11.4	12.0	30.6	12.4	4.3	2.5	d
336	Nonferrous and nonferrous base alloy castings.....	120	100.0	19.5	35.8	24.8	18.6	1.1	-	.2	d
3361	Aluminum and aluminum base alloy castings.....	102	100.0	16.6	36.8	28.3	17.1	1.0	-	.2	e
339	Miscellaneous primary metal products.	321	100.0	12.7	48.7	16.1	16.5	2.4	.7	2.9	b
3391	Iron and steel forgings.....	297	100.0	12.9	51.6	15.5	15.7	1.8	.3	2.2	b
34	Fabricated metal products.....	1,999	100.0	19.4	22.6	15.1	26.6	9.2	1.2	5.9	b
342	Cutlery, hand tools, and general hardware.....	146	100.0	18.5	26.4	4.7	29.3	11.5	2.1	7.5	d
344	Structural and miscellaneous metal products.....	930	100.0	22.5	23.9	17.1	22.7	7.9	.8	5.1	d
345	Bolts, nuts, screws, rivets, washers, and other industrial fasteners.....	428	100.0	18.9	28.8	10.9	26.1	6.7	.5	8.1	b
349	Miscellaneous fabricated metal products.....	138	100.0	18.8	13.9	10.5	28.0	20.2	4.7	3.9	b
3494	Valves and pipe fittings (except plumbers' brass goods and fittings).	76	100.0	25.0	15.2	4.5	25.8	20.3	3.0	6.2	c

See footnote at end of table.

TABLE 3. Tons of Shipments—Distance and Commodity:
1963—Continued

TCC code	Commodity	Tons (thous.)	Percent distribution by distance of shipment								Sampling variability code ¹
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over	
35	Machinery, except electrical.....	2,708	100.0	40.8	10.5	13.8	17.2	9.7	2.4	5.6	c
353	Construction, mining, and materials handling machinery and equipment....	1,044	100.0	22.0	11.1	17.8	23.1	13.0	.9	12.1	d
356	General industrial machinery and equipment.....	250	100.0	18.5	13.5	6.5	30.2	6.5	20.3	4.5	e
3566	Mechanical power transmission equipment, except ball and roller bearings.....	142	100.0	9.8	21.9	10.7	49.0	2.2	.7	5.7	e
359	Miscellaneous machinery and parts (except electrical).....	125	100.0	29.6	4.7	10.6	43.2	7.1	1.9	2.9	d
36	Electrical machinery and equipment...	265	100.0	22.7	10.2	7.0	26.4	10.5	8.6	14.6	c
362	Electrical industrial apparatus.....	101	100.0	7.4	18.7	13.9	28.6	12.4	6.7	12.3	c
3621	Motors and generators.....	61	100.0	9.8	18.2	10.0	34.9	15.0	6.7	5.4	c
364	Electric lighting and wiring equipment.....	103	100.0	43.3	4.6	2.9	20.5	4.7	4.5	19.5	d
367	Electronic components or accessories.	2	100.0	3.4	4.6	16.0	47.9	11.6	3.3	13.2	e
37	Transportation equipment.....	2,585	100.0	11.7	22.0	8.8	32.1	12.3	4.1	9.0	a
371	Motor vehicles and motor vehicle equipment.....	2,454	100.0	11.9	22.3	8.7	31.7	12.0	4.0	9.4	b
3714	Motor vehicle parts and accessories..	1,185	100.0	16.4	19.9	11.4	31.4	9.7	4.5	6.7	c
38	Instruments, photographic goods, optical goods, watches, and clocks..	17	100.0	3.0	15.9	9.2	35.9	12.0	13.9	10.1	c
39	Miscellaneous products of manufacturing.....	151	100.0	14.1	26.8	3.6	34.5	16.6	2.8	1.6	d

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5	6	7	8
	Total.....	31,934	100.0	1.5	0.5	2.2	2.4	2.7	2.3	0.3	0.3
20	Food and kindred products.....	757	100.0	-	-	.6	-	-	-	-	-
25	Furniture and fixtures.....	353	100.0	4.5	.9	.8	5.0	4.2	5.4	.7	.1
26	Pulp, paper, and allied products.....	928	100.0	4.1	1.5	5.3	3.2	2.4	1.9	.2	-
28	Chemicals and allied products.....	6,474	100.0	1.6	.2	.9	3.7	4.3	1.6	.5	.4
281	Industrial chemicals.....	2,431	100.0	.3	-	.2	6.6	7.0	1.5	.4	-
285	Paints, varnishes, lacquers, enamels, and allied products.....	471	100.0	.6	.6	1.9	1.5	2.4	.2	.2	.1
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	319	100.0	.7	.4	2.2	1.2	1.8	.1	.1	.2
289	Miscellaneous chemical products.....	2,340	100.0	3.2	-	1.3	1.7	3.8	2.6	.9	1.2
29	Petroleum and coal products.....	751	100.0	-	.2	.5	1.4	6.5	.9	1.6	.3
291	Products of petroleum refining.....	468	100.0	-	.2	.5	2.3	10.4	.8	-	.1
30	Rubber and miscellaneous plastics products.....	927	100.0	1.7	1.2	4.8	5.0	4.5	.9	.7	1.4
301	Tires and inner tubes.....	628	100.0	1.8	1.3	5.3	5.3	4.2	1.1	1.0	1.6
30111	Pneumatic tires.....	550	100.0	1.4	1.5	5.7	6.1	4.4	1.1	1.1	1.8
306	Miscellaneous fabricated rubber products.....	188	100.0	.9	.6	4.4	5.1	7.5	.5	.2	1.2
30619	Fabricated rubber products, n.e.c.....	124	100.0	.7	.4	2.1	3.2	9.5	.5	.3	1.8
307	Miscellaneous plastic products.....	74	100.0	3.8	1.5	4.0	4.1	1.3	1.3	-	1.6
32	Stone, clay, and glass products.....	1,769	100.0	5.3	.5	4.4	.3	.2	10.1	-	-
33	Primary metal products.....	11,096	100.0	.8	.8	1.7	1.5	1.8	1.7	.2	.2
331	Steel works and rolling mill products.	9,550	100.0	.8	.6	1.7	1.3	1.9	1.9	.1	.2
3312	Primary iron and steel products (except coke-oven products).....	9,125	100.0	.8	.6	1.7	1.3	1.9	2.0	.1	.2
33123	Sheet and strip, iron and steel (except tin mill products).....	4,234	100.0	.5	.8	1.3	.4	1.1	2.0	-	.2
33124	Bars, bar shapes, and rods.....	2,239	100.0	.9	.1	1.7	1.8	2.0	.1	.2	.5
332	Iron and steel castings.....	291	100.0	3.7	4.7	.8	.5	.1	-	3.4	.4
335	Nonferrous metal basic shapes.....	533	100.0	.4	1.9	2.3	5.9	2.2	.3	.5	-
336	Nonferrous and nonferrous base alloy castings.....	120	100.0	1.3	1.0	.3	1.6	.3	.1	.5	-
3361	Aluminum and aluminum base alloy castings.....	102	100.0	.2	.1	.1	1.9	.3	.1	.5	-
339	Miscellaneous primary metal products..	321	100.0	.9	1.7	1.3	1.2	1.5	.1	2.1	1.3
3391	Iron and steel forgings.....	297	100.0	.9	1.4	1.2	.7	.8	.1	2.2	1.4
34	Fabricated metal products.....	1,999	100.0	1.2	.8	2.5	2.2	2.7	1.3	.6	.8
342	Cutlery, hand tools, and general hardware.....	146	100.0	.4	.2	3.0	3.7	3.8	.6	.1	-
344	Structural and miscellaneous metal products.....	930	100.0	1.2	1.1	3.5	3.4	1.6	2.2	.6	.4
345	Bolts, nuts, screws, rivets, washers, and other industrial fasteners.....	428	100.0	.2	.8	.5	.7	3.9	.2	.2	.6
349	Miscellaneous fabricated metal products.....	138	100.0	3.2	.6	5.6	.5	2.9	2.6	.1	2.3
3494	Valves and pipe fittings (except plumbers' brass goods and fittings)..	76	100.0	3.5	.9	3.8	.5	2.7	1.4	-	1.6

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11 ²	12	13	14	15	16	17	18
	Total.....	1.0	2.6	12.2	5.5	10.4	3.2	4.2	0.8	0.5	1.1
20	Food and kindred products.....	.8	9.2	25.3	8.2	5.6	7.1	1.6	.2	-	-
25	Furniture and fixtures.....	1.0	4.9	7.6	2.6	6.9	3.0	3.2	1.2	1.6	2.5
26	Pulp, paper, and allied products.....	4.6	1.6	18.2	1.3	2.9	3.9	3.3	.3	.6	.2
28	Chemicals and allied products.....	.9	2.0	9.1	4.0	5.1	2.9	2.8	.8	.4	.6
281	Industrial chemicals.....	2.3	1.7	8.9	7.2	5.9	.5	2.7	.4	.6	1.4
285	Paints, varnishes, lacquers, enamels, and allied products.....	.1	1.1	14.2	1.3	19.2	2.0	1.4	.2	2.2	.9
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	-	1.2	19.2	1.3	27.6	2.0	.6	.2	3.2	.9
289	Miscellaneous chemical products.....	.1	2.5	8.8	2.7	3.1	3.4	2.4	1.4	-	-
29	Petroleum and coal products.....	2.9	3.5	18.0	3.6	4.2	4.1	1.2	.1	-	1.4
291	Products of petroleum refining.....	.1	1.5	11.5	2.7	5.9	3.1	1.9	-	-	2.2
30	Rubber and miscellaneous plastics products.....	.5	.7	9.5	1.5	11.3	1.7	1.9	.5	1.2	.3
301	Tires and inner tubes.....	-	.4	8.9	1.8	10.2	.3	1.6	.4	1.4	.1
30111	Pneumatic tires.....	-	.3	8.4	1.9	10.0	.3	1.6	.5	.4	.1
306	Miscellaneous fabricated rubber products.....	1.8	1.9	10.7	.6	16.1	6.7	1.9	.8	1.0	1.1
30619	Fabricated rubber products, n.e.c.....	2.0	2.2	11.8	.4	10.9	8.7	2.3	.9	1.2	.5
307	Miscellaneous plastic products.....	1.9	.8	13.9	2.1	3.3	1.6	5.7	1.0	.7	.2
32	Stone, clay, and glass products.....	.6	6.7	5.3	7.3	3.2	.2	1.8	.5	2.4	.8
33	Primary metal products.....	.7	2.0	12.6	6.9	15.2	4.6	6.0	1.3	.4	.5
331	Steel works and rolling mill products.....	.7	1.6	12.0	7.7	14.9	4.7	6.5	1.3	.2	.5
3312	Primary iron and steel products (except coke-oven products).....	.8	1.7	11.9	7.2	14.5	4.6	6.8	1.3	.2	.6
33123	Sheet and strip, iron and steel (except tin mill products).....	1.4	2.6	6.8	2.8	20.8	8.8	5.5	.4	.3	.4
33124	Bars, bar shapes, and rods.....	-	.7	25.5	9.7	17.1	1.6	5.1	3.0	-	-
332	Iron and steel castings.....	1.3	9.4	11.1	3.3	10.7	.4	.2	1.2	.1	.1
335	Nonferrous metal basic shapes.....	.3	5.2	19.0	2.1	8.4	4.6	1.2	.3	3.9	.1
336	Nonferrous and nonferrous base alloy castings.....	.8	5.0	16.0	.4	10.1	9.7	6.8	.3	-	-
3361	Aluminum and aluminum base alloy castings.....	.9	1.5	13.9	.2	11.6	11.4	6.9	.1	-	-
339	Miscellaneous primary metal products.....	.6	.2	4.0	1.3	43.2	6.0	4.3	2.1	.1	.4
3391	Iron and steel forgings.....	.7	.2	3.9	1.0	46.4	6.1	4.4	2.2	-	.3
34	Fabricated metal products.....	1.0	3.8	10.5	1.7	10.5	4.0	4.4	.6	.3	2.4
342	Cutlery, hand tools, and general hardware.....	.2	3.8	6.5	1.9	17.0	.3	6.9	.3	.1	.7
344	Structural and miscellaneous metal products.....	1.7	5.2	13.8	1.8	7.4	5.7	1.8	.1	.2	.2
345	Bolts, nuts, screws, rivets, washers, and other industrial fasteners.....	1.0	3.8	8.2	.4	21.9	3.7	9.0	2.0	.4	4.8
349	Miscellaneous fabricated metal products.....	.2	.5	15.0	1.2	4.4	.8	7.4	.2	.5	3.1
3494	Valves and pipe fittings (except plumbers' brass goods and fittings)...	.3	.7	22.2	.3	2.1	1.0	4.6	.2	.6	5.6

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									Sampling variability code ³
		19	20	21	22	23	24	25	30	50	
	Total.....	0.7	0.5	0.9	0.3	0.1	0.7	1.0	15.8	26.3	
20	Food and kindred products.....	-	-	-	-	-	-	-	7.1	34.3	d
25	Furniture and fixtures.....	2.0	3.4	-	1.9	-	.8	1.7	14.8	19.3	b
26	Pulp, paper, and allied products.....	.4	.8	1.4	-	-	-	.6	11.6	29.7	d
28	Chemicals and allied products.....	.3	.2	1.3	.7	-	.2	.1	21.2	34.2	c
281	Industrial chemicals.....	.1	.2	-	-	-	.2	-	9.9	42.0	b
285	Paints, varnishes, lacquers, enamels, and allied products.....	.7	.5	.3	.1	.1	.5	.3	31.4	16.0	d
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	1.0	.6	.1	-	.2	.7	.3	13.1	21.1	e
289	Miscellaneous chemical products.....	.7	-	.5	-	-	.2	.1	22.4	37.0	e
29	Petroleum and coal products.....	.1	.1	.7	-	-	1.2	.1	17.7	29.7	d
291	Products of petroleum refining.....	.1	-	.7	-	-	1.9	.1	23.5	30.5	d
30	Rubber and miscellaneous plastics products.....	3.4	1.2	.9	.1	.1	4.8	1.7	25.6	12.9	a
301	Tires and inner tubes.....	4.0	1.3	1.2	.1	-	6.9	1.5	25.9	12.4	a
30111	Pneumatic tires.....	3.3	1.4	1.4	-	-	7.8	1.5	25.4	12.6	a
306	Miscellaneous fabricated rubber products.....	2.6	1.0	.2	.1	.4	.6	3.2	15.3	13.6	d
30619	Fabricated rubber products, n.e.c.....	.9	1.0	.3	.2	.5	.9	4.8	16.9	15.1	d
307	Miscellaneous plastic products.....	1.8	1.9	.1	.4	-	.1	1.2	23.8	21.9	c
32	Stone, clay, and glass products.....	.8	-	1.6	.1	.1	.2	.1	9.2	38.3	d
33	Primary metal products.....	.3	.3	1.2	.1	-	.3	.9	14.8	23.2	a
331	Steel works and rolling mill products.....	.3	.2	1.3	.1	-	.3	1.0	14.5	23.7	a
3312	Primary iron and steel products (except coke-oven products).....	.3	.3	1.4	.1	-	.3	1.1	14.7	23.6	a
33123	Sheet and strip, iron and steel (except tin mill products).....	-	.4	-	.1	-	.3	.4	15.3	27.4	b
33124	Bars, bar shapes, and rods.....	-	-	.1	-	-	-	.2	15.2	14.5	b
332	Iron and steel castings.....	-	-	-	-	-	.1	.2	30.7	17.6	d
335	Nonferrous metal basic shapes.....	1.0	1.4	1.4	.6	.2	.3	.6	16.9	19.0	d
336	Nonferrous and nonferrous base alloy castings.....	-	-	-	-	-	.1	-	17.4	28.3	d
3361	Aluminum and aluminum base alloy castings.....	-	-	-	-	-	.1	.1	19.6	30.5	e
339	Miscellaneous primary metal products..	-	.2	-	-	.1	.3	.9	8.5	17.7	b
3391	Iron and steel forgings.....	-	.1	-	-	-	-	.7	7.7	17.6	b
34	Fabricated metal products.....	1.3	.7	.1	-	.7	.8	2.0	18.2	24.9	b
342	Cutlery, hand tools, and general hardware.....	2.9	1.3	.1	-	1.2	1.5	2.2	18.6	22.7	d
344	Structural and miscellaneous metal products.....	.7	.3	.1	-	-	-	3.3	19.2	24.5	d
345	Bolts, nuts, screws, rivets, washers, and other industrial fasteners.....	2.1	1.1	-	-	2.5	.6	.2	15.6	15.6	b
349	Miscellaneous fabricated metal products.....	4.2	2.3	.5	.1	.3	.2	.4	29.4	11.5	b
3494	Valves and pipe fittings (except plumbers' brass goods and fittings)..	-	2.0	.3	.1	.5	.2	.4	37.5	7.0	c

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Tons (thous.)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5	6	7	8
35	Machinery, except electrical.....	2,708	100.0	0.5	0.4	4.2	0.8	2.5	4.0	0.2	0.1
353	Construction, mining, and materials handling machinery and equipment....	1,044	100.0	1.0	.5	8.1	.3	.1	9.6	.1	-
356	General industrial machinery and equipment.....	250	100.0	.2	.2	3.6	5.9	.5	.7	1.5	-
3566	Mechanical power transmission equipment, except ball and roller bearings.....	142	100.0	.3	.2	4.7	9.5	.6	1.2	2.7	.1
359	Miscellaneous machinery and parts (except electrical).....	125	100.0	.2	.5	2.1	.7	3.3	.9	.3	.3
36	Electrical machinery and equipment....	265	100.0	1.2	.3	2.9	2.1	3.0	2.4	.3	.1
362	Electrical industrial apparatus.....	101	100.0	1.9	.3	3.8	4.3	1.5	5.7	.3	.3
3621	Motors and generators.....	61	100.0	2.7	.1	2.0	5.7	2.4	.8	.2	.4
364	Electric lighting and wiring equipment.....	103	100.0	.8	.2	1.0	.8	1.8	-	.5	-
367	Electronic components or accessories..	2	100.0	.5	2.2	17.8	7.1	3.5	1.2	.1	.1
37	Transportation equipment.....	2,585	100.0	.9	.2	3.3	6.3	3.8	2.0	.2	-
371	Motor vehicles and motor vehicle equipment.....	2,454	100.0	.9	.1	3.3	6.6	3.5	2.1	.1	-
3714	Motor vehicle parts and accessories...	1,185	100.0	1.2	.1	4.3	6.3	.8	2.3	-	-
38	Instruments, photographic goods, optical goods, watches, and clocks...	17	100.0	2.2	.4	7.7	1.4	1.0	1.0	.4	-
39	Miscellaneous products of manufacturing.....	151	100.0	2.0	1.1	1.6	3.8	2.2	9.5	.2	.2

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11 ²	12	13	14	15	16	17	18
35	Machinery, except electrical.....	2.2	2.0	13.4	13.6	9.1	0.8	4.3	0.8	0.1	0.3
353	Construction, mining, and materials handling machinery and equipment....	4.6	.2	7.4	11.3	7.4	.1	4.5	1.2	.1	.6
356	General industrial machinery and equipment.....	.1	1.4	2.0	4.5	1.3	1.9	4.9	3.4	-	.2
3566	Mechanical power transmission equipment, except ball and roller bearings.....	.1	1.8	3.1	7.4	2.2	3.2	7.9	5.7	-	.1
359	Miscellaneous machinery and parts (except electrical).....	1.2	3.6	12.3	1.1	12.2	.5	29.4	.2	.3	.6
36	Electrical machinery and equipment....	.4	2.0	18.0	1.4	4.5	5.4	6.1	.6	1.3	1.2
362	Electrical industrial apparatus.....	.8	3.4	2.4	1.0	7.5	12.1	4.2	.8	.2	.1
3621	Motors and generators.....	1.1	3.1	2.4	.6	10.3	11.6	4.0	1.2	.2	.2
364	Electric lighting and wiring equipment.....	.1	1.7	42.6	2.3	1.2	1.9	7.5	-	.6	2.4
367	Electronic components or accessories..	4.8	.9	1.2	1.2	1.8	2.3	3.5	.4	.3	.2
37	Transportation equipment.....	.3	2.0	3.3	.7	20.3	2.3	4.9	.6	.9	6.6
371	Motor vehicles and motor vehicle equipment.....	.4	2.0	3.3	.7	21.3	2.4	4.9	.6	.9	6.8
3714	Motor vehicle parts and accessories...	-	1.1	4.8	.2	24.7	3.8	7.1	.1	.5	7.2
38	Instruments, photographic goods, optical goods, watches, and clocks...	.9	13.9	.7	.8	.7	.1	2.0	.2	.3	.5
39	Miscellaneous products of manufacturing.....	.2	2.5	2.7	2.6	1.4	6.3	7.1	.2	.3	.4

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									Sampling variability code ³
		19	20	21	22	23	24	25	30	50	
35	Machinery, except electrical.....	0.7	0.2	-	-	0.1	0.1	0.9	16.1	22.6	c
353	Construction, mining, and materials handling machinery and equipment.....	1.5	.5	0.1	0.1	-	-	1.4	20.9	18.4	d
356	General industrial machinery and equipment.....	.9	.1	-	-	-	.3	2.9	32.2	31.3	e
3566	Mechanical power transmission equipment, except ball and roller bearings.....	-	-	-	-	-	.3	5.0	31.3	12.6	e
359	Miscellaneous machinery and parts (except electrical).....	.1	.3	.1	-	.2	.6	1.0	12.3	15.7	d
36	Electrical machinery and equipment....	.4	2.1	.9	.7	.3	8.7	4.4	13.6	15.7	c
362	Electrical industrial apparatus.....	.2	2.9	.7	-	.2	1.8	9.2	12.6	21.8	c
3621	Motors and generators.....	-	3.0	.2	-	-	2.0	2.5	12.9	30.4	c
364	Electric lighting and wiring equipment.....	.8	1.8	.5	.3	.3	18.7	.4	7.0	4.8	d
367	Electronic components or accessories..	.2	2.6	.2	.1	-	4.1	6.9	24.3	12.5	e
37	Transportation equipment.....	2.9	2.3	.5	.2	.3	2.2	4.1	14.8	14.1	a
371	Motor vehicles and motor vehicle equipment.....	3.1	2.4	.3	.3	.2	2.3	4.3	14.2	13.0	b
3714	Motor vehicle parts and accessories...	3.5	2.8	-	-	-	3.5	2.6	13.6	9.5	c
38	Instruments, photographic goods, optical goods, watches, and clocks...	1.2	3.8	.8	.2	.3	1.0	3.2	18.1	37.2	c
39	Miscellaneous products of manufacturing.....	.7	.2	.6	.9	.5	.5	.3	9.7	42.3	d

¹See description of production areas on page 313.²Includes only those shipments that originated in one city in this area and terminated in another city in this area.³Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 5. Ton-Miles of Shipments—Production Area Destination and Commodity: 1963

TCC code	Commodity	Ton-miles (millions)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5	6	7	8
	Total.....	10,278	100.0	2.4	0.7	2.6	2.8	2.7	2.1	0.3	0.2
20	Food and kindred products.....	92	100.0	-	-	1.9	-	-	-	-	-
25	Furniture and fixtures.....	156	100.0	5.2	.8	.7	4.0	2.8	3.0	.4	-
26	Pulp, paper, and allied products.....	273	100.0	7.0	2.0	6.8	4.0	2.7	1.9	.2	-
28	Chemicals and allied products.....	2,116	100.0	2.7	.2	1.1	4.3	4.5	1.5	.5	.4
281	Industrial chemicals.....	660	100.0	.6	-	.2	9.2	8.7	1.7	.5	-
285	Paints, varnishes, lacquers, enamels, and allied products.....	176	100.0	.8	.7	2.1	1.5	2.3	.1	.2	.1
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	81	100.0	1.4	.8	3.6	1.9	2.6	.1	.1	.2
289	Miscellaneous chemical products.....	642	100.0	6.3	-	1.9	2.3	4.7	2.7	1.0	1.2
29	Petroleum and coal products.....	220	100.0	-	.3	.6	1.9	7.4	1.0	1.7	.3
291	Products of petroleum refining.....	160	100.0	-	.3	.6	2.5	10.2	.7	-	.1
30	Rubber and miscellaneous plastics products.....	513	100.0	1.7	1.0	3.4	3.4	2.8	.5	.4	.7
301	Tires and inner tubes.....	385	100.0	1.6	1.0	3.4	3.3	2.3	.5	.5	.7
30111	Pneumatic tires.....	350	100.0	1.2	1.1	3.5	3.7	2.4	.5	.6	.8
306	Miscellaneous fabricated rubber products.....	76	100.0	1.2	.7	4.2	4.7	6.5	.3	.2	.8
30619	Fabricated rubber products, n.e.c.....	57	100.0	.8	.4	1.8	2.6	7.3	.3	.2	1.1
307	Miscellaneous plastic products.....	29	100.0	5.2	1.8	4.0	3.9	1.2	1.0	-	1.0
32	Stone, clay, and glass products.....	578	100.0	8.4	.6	5.3	.4	.3	9.2	-	-
33	Primary metal products.....	2,956	100.0	1.6	1.2	2.4	2.1	2.2	1.9	.2	.2
331	Steel works and rolling mill products.....	2,561	100.0	1.4	.9	2.5	1.9	2.3	2.1	.1	.2
3312	Primary iron and steel products (except coke-oven products).....	2,497	100.0	1.5	.9	2.4	1.9	2.4	2.2	.1	.2
33123	Sheet and strip, iron and steel (except tin mill products).....	923	100.0	1.2	1.6	2.5	.7	1.6	2.6	-	.2
33124	Bars, bar shapes, and rods.....	380	100.0	2.8	.3	4.0	4.0	3.8	.1	.4	.8
332	Iron and steel castings.....	49	100.0	11.7	12.2	1.9	.9	.1	-	5.2	.7
335	Nonferrous metal basic shapes.....	194	100.0	.6	2.3	2.5	5.5	1.9	.3	.4	-
336	Nonferrous and nonferrous base alloy castings.....	24	100.0	3.0	2.1	.5	3.2	.5	.1	.8	-
3361	Aluminum and aluminum base alloy castings.....	20	100.0	.5	.2	.3	3.8	.5	.1	.9	-
339	Miscellaneous primary metal products..	81	100.0	1.9	2.9	1.9	1.9	1.8	.1	2.6	1.2
3391	Iron and steel forgings.....	68	100.0	2.1	2.7	1.9	1.2	1.1	.1	3.2	1.4
34	Fabricated metal products.....	759	100.0	1.6	1.0	2.7	2.2	2.4	1.0	.5	.5
342	Cutlery, hand tools, and general hardware.....	63	100.0	.5	.2	2.9	3.5	2.9	.4	-	-
344	Structural and miscellaneous metal products.....	324	100.0	1.8	1.5	4.1	3.7	1.5	1.7	.6	.3
345	Bolts, nuts, screws, rivets, washers, and other industrial fasteners.....	170	100.0	.3	.9	.5	.7	3.5	.2	.2	.4
349	Miscellaneous fabricated metal products.....	56	100.0	4.2	.6	5.2	.4	2.5	1.8	.1	1.6
3494	Valves and pipe fittings (except plumbers' brass goods and fittings)...	32	100.0	4.6	.9	3.7	.5	2.3	1.1	-	1.1

See footnotes at end of table.

TABLE 5. Ton-Miles of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11 ²	12	13	14	15	16	17	18
	Total.....	1.0	1.5	1.5	1.4	3.9	2.0	4.3	0.9	1.1	1.8
20	Food and kindred products.....	2.2	14.4	8.1	6.0	4.2	11.3	4.0	.7	-	-
25	Furniture and fixtures.....	.6	2.1	.6	.5	1.7	1.4	2.6	1.1	2.5	2.9
26	Pulp, paper, and allied products.....	3.9	.8	2.7	.4	1.2	3.0	4.0	.3	1.3	.3
28	Chemicals and allied products.....	.8	1.2	1.0	1.2	1.6	1.7	2.7	.8	.8	.9
281	Industrial chemicals.....	2.5	1.2	1.5	2.7	2.2	.4	3.3	.5	1.4	2.5
285	Paints, varnishes, lacquers, enamels, and allied products.....	.1	.6	1.3	.4	5.1	1.1	1.1	.2	3.7	1.1
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	-	1.0	2.5	.6	10.8	1.6	.7	.2	7.8	1.8
289	Miscellaneous chemical products.....	.1	1.8	.9	.9	1.1	2.4	2.8	1.7	-	.1
29	Petroleum and coal products.....	2.4	1.5	2.7	1.4	1.5	2.8	1.3	.1	-	2.5
291	Products of petroleum refining.....	.1	.8	.9	.9	1.7	1.8	1.7	-	-	3.4
30	Rubber and miscellaneous plastics products.....	.3	.2	.4	.3	2.6	.5	1.1	.3	1.4	.3
301	Tires and inner tubes.....	-	.1	.3	.3	2.1	.1	.8	.2	1.5	.1
30111	Pneumatic tires.....	-	.1	.3	.3	2.0	.1	.8	.2	.5	.1
306	Miscellaneous fabricated rubber products.....	1.4	.8	.8	.1	4.6	2.9	1.5	.7	1.5	1.3
30619	Fabricated rubber products, n.e.c.....	1.5	.8	.8	.1	3.0	3.4	1.6	.7	1.6	.5
307	Miscellaneous plastic products.....	1.8	.4	1.5	.6	1.1	.6	5.0	1.0	1.2	.2
32	Stone, clay, and glass products.....	.7	4.4	.7	1.5	1.2	.1	1.8	.6	4.8	1.3
33	Primary metal products.....	.8	1.4	2.1	2.2	7.3	3.5	7.5	1.7	1.0	1.0
331	Steel works and rolling mill products.....	.9	1.2	2.0	2.4	7.0	3.5	8.1	1.7	.6	1.1
3312	Primary iron and steel products (except coke-oven products).....	.9	1.2	1.9	2.0	6.9	3.4	8.3	1.7	.6	1.1
33123	Sheet and strip, iron and steel (except tin mill products).....	1.9	2.5	1.3	1.0	12.4	8.0	8.7	.7	.9	.9
33124	Bars, bar shapes, and rods.....	-	.7	6.7	4.4	12.8	2.0	10.1	6.1	.1	-
332	Iron and steel castings.....	2.0	5.0	3.7	2.3	5.8	.6	.4	2.3	.3	.3
335	Nonferrous metal basic shapes.....	.2	2.7	3.0	.4	2.7	2.6	1.1	.3	7.0	.2
336	Nonferrous and nonferrous base alloy castings.....	1.2	4.8	2.4	.2	5.5	10.0	10.7	.7	-	-
3361	Aluminum and aluminum base alloy castings.....	1.4	1.7	1.9	.1	6.3	11.8	10.7	.1	-	-
339	Miscellaneous primary metal products..	.9	.1	.8	.4	23.9	4.8	5.4	2.7	.2	.8
3391	Iron and steel forgings.....	1.1	.1	.8	.3	28.6	5.4	6.1	3.1	-	.7
34	Fabricated metal products.....	1.1	1.8	1.5	.4	3.3	2.0	3.7	.5	.5	3.1
342	Cutlery, hand tools, and general hardware.....	.1	1.7	.4	.4	4.4	.1	5.3	.3	.1	.8
344	Structural and miscellaneous metal products.....	1.9	2.9	2.4	.5	2.5	3.1	1.7	.1	.3	.3
345	Bolts, nuts, screws, rivets, washers, and other industrial fasteners.....	1.0	1.7	.8	.1	6.7	1.7	6.9	1.7	.6	5.9
349	Miscellaneous fabricated metal products.....	.1	.2	1.4	.2	1.5	.4	6.1	.1	.8	3.8
3494	Valves and pipe fittings (except plumbers' brass goods and fittings)...	.2	.3	2.1	.1	.5	.5	3.4	.1	1.0	6.7

See footnotes at end of table.

TABLE 5. Ton-Miles of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued								
		19	20	21	22	23	24	25	30	50
	Total.....	1.2	1.6	3.2	1.0	0.6	4.4	6.6	24.2	24.0
20	Food and kindred products.....	-	-	-	-	-	.1	-	9.1	38.0
25	Furniture and fixtures.....	2.5	8.3	.1	5.2	-	4.1	8.1	20.3	18.5
26	Pulp, paper, and allied products.....	.9	3.0	5.1	-	-	-	4.0	20.0	24.5
28	Chemicals and allied products.....	.6	.5	4.3	2.8	.1	1.3	.9	32.8	28.8
281	Industrial chemicals.....	.3	.9	-	-	-	1.3	-	18.1	40.3
285	Paints, varnishes, lacquers, enamels, and allied products.....	1.0	1.4	.9	.3	.6	3.1	1.8	56.2	12.2
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	2.1	2.6	.4	.1	1.4	5.9	2.1	25.1	22.6
289	Miscellaneous chemical products.....	1.3	-	2.0	.2	-	2.0	.9	27.5	34.2
29	Petroleum and coal products.....	.2	.4	2.8	-	-	8.9	.5	37.7	20.1
291	Products of petroleum refining.....	.1	-	2.4	-	-	12.1	.7	45.7	13.3
30	Rubber and miscellaneous plastics products.....	3.2	2.3	1.7	.2	.3	18.8	6.5	32.1	13.6
301	Tires and inner tubes.....	3.4	2.1	2.2	.1	-	24.3	5.0	30.2	13.9
30111	Pneumatic tires.....	2.7	2.3	2.4	-	-	26.7	4.7	28.8	14.2
306	Miscellaneous fabricated rubber products.....	3.4	2.7	.5	.4	2.1	3.2	16.1	22.7	14.7
30619	Fabricated rubber products, n.e.c....	1.0	2.2	.6	.6	2.3	4.3	21.5	22.8	16.2
307	Miscellaneous plastic products.....	2.7	4.9	.4	1.3	.2	.7	6.0	35.5	16.8
32	Stone, clay, and glass products.....	1.3	.1	5.2	.4	.5	1.6	.8	14.3	34.5
33	Primary metal products.....	.6	1.1	5.1	.6	.3	2.5	7.2	20.2	22.1
331	Steel works and rolling mill products.....	.6	.9	5.4	.6	.3	2.7	7.6	19.7	22.3
3312	Primary iron and steel products (except coke-oven products).....	.6	1.0	5.5	.6	.3	2.7	7.8	19.5	22.4
33123	Sheet and strip, iron and steel (except tin mill products).....	-	2.1	.1	.6	-	3.0	3.4	19.4	22.7
33124	Bars, bar shapes, and rods.....	-	-	.5	-	.2	-	2.4	20.5	17.3
332	Iron and steel castings.....	-	-	-	-	-	1.0	2.0	26.7	14.9
335	Nonferrous metal basic shapes.....	1.5	4.0	4.1	1.9	.9	2.0	3.2	28.2	20.5
336	Nonferrous and nonferrous base alloy castings.....	-	-	-	-	-	.8	.5	20.4	32.6
3361	Aluminum and aluminum base alloy castings.....	-	-	-	-	-	.9	.5	22.4	35.9
339	Miscellaneous primary metal products..	-	.9	.1	-	.5	2.8	7.2	20.0	14.2
3391	Iron and steel forgings.....	-	.2	.1	-	.1	.1	6.5	18.5	14.6
34	Fabricated metal products.....	1.8	1.8	.4	.1	3.5	4.5	11.0	23.2	23.9
342	Cutlery, hand tools, and general hardware.....	3.6	3.2	.2	.1	6.0	7.4	10.2	24.0	21.3
344	Structural and miscellaneous metal products.....	1.0	.8	.2	.1	.1	.2	19.3	28.1	19.3
345	Bolts, nuts, screws, rivets, washers, and other industrial fasteners.....	2.9	2.8	-	.1	12.8	3.1	.8	13.2	30.5
349	Miscellaneous fabricated metal products.....	5.4	5.7	1.3	.2	1.6	1.0	1.9	39.0	12.9
3494	Valves and pipe fittings (except plumbers' brass goods and fittings)..	-	5.0	.8	.4	2.6	.8	1.7	49.6	10.0

See footnotes at end of table.

TABLE 5. Ton-Miles of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Ton-miles (millions)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5	6	7	8
35	Machinery, except electrical.....	908	100.0	0.8	0.5	4.8	0.9	2.3	3.2	0.2	0.1
353	Construction, mining, and materials handling machinery and equipment.....	512	100.0	.9	.4	6.4	.3	.1	5.1	.1	-
356	General industrial machinery and equipment.....	133	100.0	.2	.2	2.7	4.1	.3	.4	.9	-
3566	Mechanical power transmission equipment, except ball and roller bearings.....	56	100.0	.5	.2	4.8	9.2	.5	.9	2.3	-
359	Miscellaneous machinery and parts (except electrical).....	41	100.0	.4	.6	2.4	.8	3.3	.8	.2	.2
36	Electrical machinery and equipment....	165	100.0	1.0	.2	1.8	1.2	1.6	1.1	.2	.1
362	Electrical industrial apparatus.....	59	100.0	1.7	.2	2.5	2.5	.9	2.7	.2	.1
3621	Motors and generators.....	29	100.0	2.9	.1	1.5	3.9	1.7	.5	.1	.2
364	Electric lighting and wiring equip- ment.....	63	100.0	.7	.1	.7	.5	1.0	-	.3	-
367	Electronic components or accessories..	1	100.0	.5	1.6	11.8	4.5	1.8	.5	.1	-
37	Transportation equipment.....	1,292	100.0	.9	.2	2.6	5.0	2.5	1.3	.1	-
371	Motor vehicles and motor vehicle equipment.....	1,233	100.0	1.0	.1	2.6	5.2	2.2	1.3	.1	-
3714	Motor vehicle parts and accessories...	532	100.0	1.4	.1	3.8	5.6	.6	1.6	-	-
38	Instruments, photographic goods, optical goods, watches, and clocks...	11	100.0	1.8	.3	4.2	.7	.5	.4	.1	-
39	Miscellaneous products of manufacturing.....	54	100.0	3.1	1.4	1.8	4.2	2.1	8.1	.2	.1

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11 ²	12	13	14	15	16	17	18
35	Machinery, except electrical.....	2.0	1.0	1.6	2.5	3.1	0.4	4.2	0.9	0.1	0.5
353	Construction, mining, and materials handling machinery and equipment.....	2.7	.1	.7	1.4	2.1	-	3.2	1.0	.1	.7
356	General industrial machinery and equipment.....	.1	.4	.2	.9	.3	.8	2.9	2.2	-	.2
3566	Mechanical power transmission equipment, except ball and roller bearings.....	.1	.6	.3	2.1	.7	1.7	6.3	5.0	-	.1
359	Miscellaneous machinery and parts (except electrical).....	1.2	2.3	1.3	.3	3.6	.3	29.1	.2	.5	.9
36	Electrical machinery and equipment....	.2	.5	1.3	.2	1.0	2.2	3.3	.3	1.3	1.0
362	Electrical industrial apparatus.....	.4	.9	.2	.2	1.9	5.4	2.4	.5	.2	.1
3621	Motors and generators.....	.6	.7	.2	.2	3.2	7.5	3.1	.8	.2	.2
364	Electric lighting and wiring equipment.....	.1	.4	3.1	.3	.3	.7	3.9	-	.6	2.0
367	Electronic components or accessories..	2.4	.3	.1	.2	.3	.6	2.0	.3	.4	.1
37	Transportation equipment.....	.2	.7	.2	.2	4.6	.8	3.0	.4	1.2	6.4
371	Motor vehicles and motor vehicle equipment.....	.2	.7	.2	.2	4.8	.8	3.0	.4	1.2	6.6
3714	Motor vehicle parts and accessories...	-	.4	.3	-	6.2	1.4	4.8	.1	.7	7.9
38	Instruments, photographic goods, optical goods, watches, and clocks...	.6	3.6	-	.1	.1	-	1.1	.1	.3	.4
39	Miscellaneous products of manufacturing.....	.2	1.3	.3	.8	.4	3.1	6.1	.2	.5	.6

See footnotes at end of table.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued								
		19	20	21	22	23	24	25	30	50
35	Machinery, except electrical.....	1.1	0.7	0.2	0.2	0.6	0.6	5.3	34.9	27.3
353	Construction, mining, and materials handling machinery and equipment.....	1.6	.9	.1	.3	.2	.2	5.6	37.1	28.7
356	General industrial machinery and equipment.....	1.1	.3	.1	-	.1	1.1	11.3	37.7	31.5
3566	Mechanical power transmission equipment, except ball and roller bearings.....	.1	.1	-	-	.2	1.5	26.3	26.6	9.9
359	Miscellaneous machinery and parts (except electrical).....	.1	.9	.4	.1	1.0	4.2	6.2	17.9	20.8
36	Electrical machinery and equipment....	.4	3.5	1.6	1.3	1.1	30.2	14.5	15.7	13.2
362	Electrical industrial apparatus.....	.2	5.4	1.3	.1	.7	6.6	31.8	13.5	17.4
3621	Motors and generators.....	-	7.1	.5	.1	-	9.2	10.8	16.9	27.8
364	Electric lighting and wiring equipment.....	.7	3.1	1.0	.7	1.0	65.4	1.4	6.3	5.7
367	Electronic components or accessories..	.2	4.3	.4	.1	-	14.3	22.7	19.5	11.0
37	Transportation equipment.....	3.2	4.6	1.1	.6	1.1	9.5	16.6	17.2	15.8
371	Motor vehicles and motor vehicle equipment.....	3.4	4.8	.8	.6	.9	9.9	17.4	16.5	15.1
3714	Motor vehicle parts and accessories...	4.3	6.5	.1	.1	-	16.8	12.0	15.7	9.6
38	Instruments, photographic goods, optical goods, watches, and clocks...	1.1	6.5	1.4	.3	1.0	3.5	10.4	26.0	35.5
39	Miscellaneous products of manufacturing.....	1.0	.5	1.7	3.1	2.6	3.3	1.8	13.9	37.6

¹See description of production areas on page 313.²Includes only those shipments that originated in one city in this area and terminated in another city in this area.

Production Area 12

Production Area 12 consists of three standard metropolitan statistical areas: Pittsburgh, Pa.; Steubenville-Weirton, Ohio-W. Va.; and Wheeling, W. Va.-Ohio.

Data are based on 126 plants from which 15,538 shipping documents were sampled. The sampling variability on the estimated 33.5 million tons shipped from Production Area 12 is ± 7.3 percent.

Major commodity groups shipped from Production Area 12 and their area of destinations are summarized in table A below.

Table A.—DISTRIBUTION OF TONS OF COMMODITIES SHIPPED FROM PRODUCTION AREA 12,
BY AREA OF DESTINATION

TCC code	Commodity class	Total tons (thousands)	Percent distribution by destination area			
			Production Area 12 ¹	Other produc- tion areas	Other SMSA's	Balance of country
	Total.....	² 33,502	14.0	50.3	13.6	22.1
28	Chemicals and allied products.....	1,188	31.1	29.0	13.7	26.2
32	Stone, clay, and glass products.....	2,989	2.0	57.0	10.7	30.3
33	Primary metal products.....	21,929	10.9	55.7	12.9	20.5
34	Fabricated metal products.....	2,810	27.2	32.7	21.5	18.6
35	Machinery, except electrical.....	506	8.9	65.1	15.6	10.4
36	Electrical machinery and equipment.....	256	3.7	58.5	18.8	19.0

¹Includes only those shipments that originated in one city in this area and terminated in another city in this area.

²Includes commodity classes not shown separately.

TABLE 1. Tons of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by means of transport								Sampling variability code ¹
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown	
	Total.....	33,502	100.0	51.5	33.2	4.8	-	9.8	0.5	0.2	
28	Chemicals and allied products.....	1,188	100.0	36.9	33.1	5.6	-	24.3	.1	-	c
285	Paints, varnishes, lacquers, enamels, and allied products.....	100	100.0	9.2	80.4	9.4	0.2	.5	.3	-	d
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	92	100.0	7.8	81.0	10.2	.2	.5	.3	-	d
32	Stone, clay, and glass products.....	2,989	100.0	20.7	71.3	6.2	.1	-	.5	1.2	e
33	Primary metal products.....	21,929	100.0	55.5	29.7	.9	-	13.3	.6	-	a
331	Steel works and rolling mill products.....	21,231	100.0	55.7	29.3	.6	-	13.8	.6	-	a
3312	Primary iron and steel products (except coke-oven products).....	16,851	100.0	45.0	36.2	.6	-	17.3	.8	.1	a
33123	Sheet and strip, iron and steel (except tin mill products).....	6,834	100.0	27.8	47.2	.5	-	22.4	2.0	.1	b
33126	Steel pipe, tubes, and fittings.....	1,867	100.0	55.3	25.2	1.3	-	18.2	-	-	a
332	Iron and steel castings.....	63	100.0	34.1	59.1	6.7	.1	-	-	-	b
335	Nonferrous metal basic shapes.....	255	100.0	19.1	52.4	26.7	-	.2	1.6	-	c
34	Fabricated metal products.....	2,810	100.0	69.6	24.8	3.2	.1	1.8	.2	.3	a
344	Structural and miscellaneous metal products.....	2,347	100.0	77.8	17.2	2.7	.1	2.2	-	-	a
349	Miscellaneous fabricated metal products.....	196	100.0	19.2	66.9	10.5	-	-	1.7	1.7	d
35	Machinery, except electrical.....	506	100.0	40.4	57.1	1.1	.3	-	.4	.7	c
36	Electrical machinery and equipment...	256	100.0	28.9	61.7	2.8	.2	2.5	2.6	1.3	b
361	Electrical transmission and distribution equipment.....	110	100.0	39.4	57.3	.9	.1	-	1.5	.8	d

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 2. **Ton-Miles of Shipments—Means of Transport and Commodity: 1963**

TCC code	Commodity	Ton-miles (millions)	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Un-known
	Total.....	10,369	100.0	55.6	23.8	2.1	0.1	17.5	0.6	0.3
28	Chemicals and allied products.....	294	100.0	57.3	35.4	4.0	-	2.9	.3	.1
285	Paints, varnishes, lacquers, enamels, and allied products.....	26	100.0	16.4	80.1	1.8	.4	.6	.7	-
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	23	100.0	13.9	82.1	2.0	.5	.7	.8	-
32	Stone, clay, and glass products.....	759	100.0	17.5	72.7	5.7	.9	.1	.5	2.6
33	Primary metal products.....	7,229	100.0	57.0	17.3	.5	-	24.7	.5	-
331	Steel works and rolling mill products.....	7,082	100.0	57.2	16.9	.2	-	25.2	.5	-
3312	Primary iron and steel products (except coke-oven products).....	6,189	100.0	51.3	19.0	.2	-	28.9	.6	-
33123	Sheet and strip, iron and steel (except tin mill products).....	2,132	100.0	21.7	29.2	.2	-	47.3	1.5	.1
33126	Steel pipe, tubes, and fittings.....	1,040	100.0	65.2	9.3	.6	-	24.9	-	-
332	Iron and steel castings.....	12	100.0	27.9	67.2	4.1	.5	-	.3	-
335	Nonferrous metal basic shapes.....	57	100.0	9.1	58.0	28.3	.1	.2	4.3	-
34	Fabricated metal products.....	764	100.0	71.7	22.6	2.6	.1	2.0	.8	.2
344	Structural and miscellaneous metal products.....	584	100.0	80.1	14.4	2.4	.2	2.6	.3	-
349	Miscellaneous fabricated metal products....	65	100.0	36.4	49.1	7.1	-	-	5.9	1.5
35	Machinery, except electrical.....	197	100.0	56.7	40.5	.3	.2	-	1.7	.6
36	Electrical machinery and equipment.....	167	100.0	44.6	48.7	2.0	.2	.8	2.1	1.6
361	Electrical transmission and distribution equipment.....	61	100.0	46.8	49.6	.2	.1	-	3.0	.3

TABLE 3. Tons of Shipments—Distance and Commodity:
1963

TCC code	Commodity	Tons (thous.)	Percent distribution by distance of shipment								Sampling variability code ¹
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over	
	Total.....	33,502	100.0	26.8	22.3	18.6	18.6	7.3	3.6	2.8	
28	Chemicals and allied products.....	1,188	100.0	42.2	12.9	11.9	24.5	5.6	1.6	1.3	c
285	Paints, varnishes, lacquers, enamels, and allied products.....	100	100.0	28.6	17.1	19.5	27.2	6.1	.2	1.3	d
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	92	100.0	29.6	18.6	20.0	26.9	3.3	.2	1.4	d
32	Stone, clay, and glass products.....	2,989	100.0	10.9	26.8	40.0	17.7	3.4	.2	1.0	e
33	Primary metal products.....	21,929	100.0	24.0	24.4	16.9	19.5	7.9	4.2	3.1	a
331	Steel works and rolling mill products	21,231	100.0	24.0	24.1	16.8	19.5	8.1	4.3	3.2	a
3312	Primary iron and steel products (except coke-oven products).....	16,851	100.0	25.6	17.6	19.5	17.7	10.2	5.4	4.0	a
33123	Sheet and strip, iron and steel (except tin mill products).....	6,834	100.0	19.0	20.8	23.4	23.0	4.7	9.1	-	b
33126	Steel pipe, tubes, and fittings.....	1,867	100.0	16.7	16.3	9.5	21.4	18.0	12.8	5.3	a
332	Iron and steel castings.....	63	100.0	44.4	21.0	14.2	17.7	.9	1.4	.4	b
335	Nonferrous metal basic shapes.....	255	100.0	20.4	36.4	22.3	15.6	4.1	.6	.6	c
34	Fabricated metal products.....	2,810	100.0	35.4	16.3	22.4	14.8	5.7	2.4	3.0	a
344	Structural and miscellaneous metal products.....	2,347	100.0	39.7	16.7	21.7	13.5	3.2	2.3	2.9	a
349	Miscellaneous fabricated metal products.....	196	100.0	20.3	8.3	28.2	18.8	20.5	3.1	.8	d
35	Machinery, except electrical.....	506	100.0	15.7	19.1	19.3	27.6	8.9	3.8	5.6	c
36	Electrical machinery and equipment...	256	100.0	6.5	14.6	14.3	25.1	17.2	11.6	10.7	b
361	Electrical transmission and distribution equipment.....	110	100.0	7.8	15.0	14.8	25.9	21.8	8.3	6.4	d

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5	6	7	8
	Total.....	33,502	100.0	0.8	0.5	1.8	1.9	3.1	2.9	0.6	0.8
28	Chemicals and allied products.....	1,188	100.0	.6	2.1	.6	2.1	.5	-	.1	.3
285	Paints, varnishes, lacquers, enamels, and allied products.....	100	100.0	.9	.2	1.7	2.6	.8	.1	-	.7
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	92	100.0	1.0	.2	1.9	2.0	.9	.1	-	.7
32	Stone, clay, and glass products.....	2,989	100.0	3.4	.3	2.0	1.9	1.2	12.6	3.1	.3
33	Primary metal products.....	21,929	100.0	.3	.5	1.3	1.8	3.5	2.1	.4	1.0
331	Steel works and rolling mill products.....	21,231	100.0	.3	.4	1.2	1.8	3.6	2.1	.4	1.0
3312	Primary iron and steel products (except coke-oven products).....	16,851	100.0	.4	.5	1.5	2.3	3.0	2.6	.5	1.0
33123	Sheet and strip, iron and steel (except tin mill products).....	6,834	100.0	.3	.8	2.1	2.4	3.0	1.4	1.1	.7
33126	Steel pipe, tubes, and fittings.....	1,867	100.0	.5	.1	2.5	3.4	.6	4.0	-	.9
332	Iron and steel castings.....	63	100.0	.7	-	.2	4.0	1.3	2.9	.1	3.6
335	Nonferrous metal basic shapes.....	255	100.0	.2	.6	2.1	1.1	1.2	-	.3	.3
34	Fabricated metal products.....	2,810	100.0	.7	1.1	3.3	3.8	2.6	1.6	-	.3
344	Structural and miscellaneous metal products.....	2,347	100.0	.5	1.1	3.1	3.5	2.5	1.7	-	-
349	Miscellaneous fabricated metal products.....	196	100.0	.9	.2	2.7	4.4	2.7	.3	.3	.7
35	Machinery, except electrical.....	506	100.0	.4	.7	9.2	1.2	3.4	7.1	1.0	.2
36	Electrical machinery and equipment....	256	100.0	4.9	.1	1.1	3.2	1.9	2.9	.2	.4
361	Electrical transmission and distribution equipment.....	110	100.0	4.4	.1	1.7	4.7	1.9	.7	.2	.4

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12 ²	13	14	15	16	17	18
	Total.....	0.7	1.8	15.2	14.0	4.4	3.5	5.5	0.6	0.2	0.5
28	Chemicals and allied products.....	2.6	1.8	7.3	31.1	1.6	2.0	4.5	1.1	-	.1
285	Paints, varnishes, lacquers, enamels, and allied products.....	1.3	7.2	5.0	16.2	3.5	8.3	8.0	9.2	-	.1
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	1.4	6.6	5.4	16.4	3.8	9.0	6.9	10.0	-	.1
32	Stone, clay, and glass products.....	.2	10.9	10.4	2.0	3.0	4.2	1.6	.1	.2	.6
33	Primary metal products.....	.8	.7	19.0	10.9	5.3	4.2	7.0	.6	.2	.5
331	Steel works and rolling mill products.....	.6	.6	19.4	10.9	5.0	4.1	7.1	.6	.2	.5
3312	Primary iron and steel products (except coke-oven products).....	.7	.8	10.0	13.2	6.3	5.1	2.6	.7	.3	.6
33123	Sheet and strip, iron and steel (except tin mill products).....	1.0	1.3	14.0	6.4	8.8	7.1	1.3	.8	.6	.2
33126	Steel pipe, tubes, and fittings.....	.3	.6	3.7	6.1	1.8	1.4	2.0	-	.2	.8
332	Iron and steel castings.....	.1	3.6	27.5	9.7	2.4	2.1	7.4	3.9	-	.1
335	Nonferrous metal basic shapes.....	1.1	1.4	14.6	12.1	1.5	14.1	8.7	.3	.1	.6
34	Fabricated metal products.....	.7	1.9	6.3	27.2	2.3	2.7	.9	-	-	.2
344	Structural and miscellaneous metal products.....	.6	1.8	6.4	31.2	1.6	2.0	.4	-	-	-
349	Miscellaneous fabricated metal products.....	.2	.8	4.8	9.4	5.9	13.2	1.7	.1	.3	.1
35	Machinery, except electrical.....	.2	2.3	11.6	8.9	8.2	.8	11.5	1.7	-	1.5
36	Electrical machinery and equipment....	.7	6.2	1.1	3.7	.3	5.3	7.1	2.0	.5	.4
361	Electrical transmission and distribution equipment.....	.1	9.9	1.2	5.1	.2	.7	2.3	3.4	.8	.5

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									Sampling variability code ³
		19	20	21	22	23	24	25	30	50	
	Total.....	0.4	0.3	2.4	0.2	0.2	1.3	0.7	13.6	22.1	
28	Chemicals and allied products.....	.1	.2	.4	-	-	-	1.0	13.7	26.2	c
285	Paints, varnishes, lacquers, enamels, and allied products.....	.1	-	-	-	.1	.2	.1	13.9	19.8	d
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	.1	-	-	-	.1	.3	.1	12.5	20.5	d
32	Stone, clay, and glass products.....	.1	-	-	-	.3	.1	.5	10.7	30.3	e
33	Primary metal products.....	.3	.1	3.3	.2	.1	1.8	.7	12.9	20.5	a
331	Steel works and rolling mill products.....	.3	.1	3.4	.2	.1	1.9	.7	12.8	20.7	a
3312	Primary iron and steel products (except coke-oven products).....	.4	.2	4.3	.3	.1	2.4	.9	16.1	23.2	a
33123	Sheet and strip, iron and steel (except tin mill products).....	-	.3	8.7	-	-	-	-	13.0	24.7	b
33126	Steel pipe, tubes, and fittings.....	-	.1	4.6	2.3	.1	.5	2.3	20.3	40.9	a
332	Iron and steel castings.....	-	-	-	-	-	-	.3	11.0	19.1	b
335	Nonferrous metal basic shapes.....	-	.4	.1	-	-	-	.5	21.7	17.0	c
34	Fabricated metal products.....	.4	.6	1.1	-	.6	.4	1.2	21.5	18.6	a
344	Structural and miscellaneous metal products.....	-	.5	1.1	-	.7	.5	.9	22.7	17.2	a
349	Miscellaneous fabricated metal products.....	-	.1	1.5	.1	-	.2	.3	16.5	32.6	d
35	Machinery, except electrical.....	.8	.1	1.7	.2	.1	.1	1.1	15.6	10.4	c
36	Electrical machinery and equipment....	2.6	5.8	1.6	1.7	5.6	2.5	.4	18.8	19.0	b
361	Electrical transmission and distribution equipment.....	.7	1.7	1.7	.2	.3	1.9	.9	27.1	27.2	d

¹See description of production areas on page 313.²Includes only those shipments that originated in one city in this area and terminated in another city in this area.³Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**

TCC code	Commodity	Ton-miles (millions)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5	6	7	8
	Total.....	10,369	100.0	1.2	0.7	1.9	1.9	2.6	1.9	0.5	0.5
23	Chemicals and allied products.....	294	100.0	1.1	3.4	.9	2.8	.6	-	.1	.2
285	Paints, varnishes, lacquers, enamels, and allied products.....	26	100.0	1.7	.2	2.1	3.2	.9	.1	-	.4
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	23	100.0	1.9	.3	2.4	2.4	1.0	.1	-	.5
32	Stone, clay, and glass products.....	759	100.0	6.5	.4	2.6	2.4	1.2	9.9	3.0	.2
33	Primary metal products.....	7,229	100.0	.4	.6	1.2	1.7	2.8	1.3	.3	.5
331	Steel works and rolling mill products.....	7,082	100.0	.4	.5	1.2	1.7	2.8	1.3	.3	.5
3312	Primary iron and steel products (except coke-oven products).....	6,189	100.0	.5	.6	1.3	2.0	2.2	1.5	.3	.5
33123	Sheet and strip, iron and steel (except tin mill products).....	2,132	100.0	.5	1.0	2.3	2.4	2.6	.9	.8	.4
33126	Steel pipe, tubes, and fittings.....	1,040	100.0	.4	.1	1.4	1.9	.3	1.5	-	.3
332	Iron and steel castings.....	12	100.0	1.8	-	.3	5.8	1.6	2.9	.1	3.4
335	Nonferrous metal basic shapes.....	57	100.0	.4	1.0	3.0	1.5	1.4	-	.3	.2
34	Fabricated metal products.....	764	100.0	1.2	1.5	4.0	4.3	2.5	1.1	-	.2
344	Structural and miscellaneous metal products.....	584	100.0	.9	1.7	4.1	4.2	2.7	1.3	-	-
349	Miscellaneous fabricated metal products.....	65	100.0	1.2	.2	2.7	4.1	2.1	.2	.2	.4
35	Machinery, except electrical.....	197	100.0	.5	.7	7.5	1.0	2.1	3.7	.6	.1
36	Electrical machinery and equipment....	167	100.0	3.6	.1	.6	1.5	.7	.9	.1	.1
361	Electrical transmission and distribution equipment.....	61	100.0	3.8	.1	1.0	2.5	.8	.3	.1	.1
TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12 ²	13	14	15	16	17	18
	Total.....	0.7	1.3	5.0	1.1	2.9	2.7	7.2	0.8	0.4	0.9
23	Chemicals and allied products.....	3.9	1.5	1.9	3.5	1.2	1.9	7.0	2.0	-	.2
285	Paints, varnishes, lacquers, enamels, and allied products.....	1.7	5.3	1.6	1.3	2.7	7.9	12.3	15.5	.1	.2
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	1.9	4.8	1.8	1.2	3.1	8.9	11.0	17.5	.1	.2
32	Stone, clay, and glass products.....	.2	10.4	4.6	.2	2.5	4.0	2.5	.2	.7	1.3
33	Primary metal products.....	.7	.4	6.0	.8	3.3	2.9	8.6	.7	.5	.7
331	Steel works and rolling mill products.....	.5	.4	6.0	.7	3.2	2.9	8.6	.7	.5	.7
3312	Primary iron and steel products (except coke-oven products).....	.6	.4	2.4	.8	3.6	3.3	2.8	.8	.5	.9
33123	Sheet and strip, iron and steel (except tin mill products).....	.9	.8	3.7	.5	6.0	5.3	1.6	1.1	1.4	.3
33126	Steel pipe, tubes, and fittings.....	.2	.2	.5	.3	.6	.6	1.4	-	.3	.8
332	Iron and steel castings.....	.2	3.3	10.1	1.4	3.1	2.6	15.0	9.1	-	.2
335	Nonferrous metal basic shapes.....	1.4	1.2	6.7	1.4	1.5	15.7	15.7	.6	.5	1.4
34	Fabricated metal products.....	.7	1.3	2.2	2.2	1.8	2.3	1.4	-	.1	.5
344	Structural and miscellaneous metal products.....	.6	1.3	2.3	2.8	1.4	2.0	.6	-	-	-
349	Miscellaneous fabricated metal products.....	.2	.4	1.3	.7	4.0	8.5	2.0	.2	.6	.1
35	Machinery, except electrical.....	.2	1.1	2.7	.5	4.3	.5	11.6	1.7	-	2.2
36	Electrical machinery and equipment....	.3	1.6	.2	.2	.1	2.1	4.5	1.4	.6	.3
361	Electrical transmission and distribution equipment.....	.1	2.9	.2	.3	.1	.3	1.6	2.8	1.1	.6

See footnotes at end of table.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued								
		19	20	21	22	23	24	25	30	50
	Total.....	0.7	0.9	8.7	0.8	1.7	9.2	5.0	19.6	19.2
28	Chemicals and allied products.....	.2	1.1	1.9	-	-	.3	8.1	19.4	36.8
285	Paints, varnishes, lacquers, enamels, and allied products.....	.1	-	-	-	.5	2.1	1.0	22.0	17.1
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	.1	-	-	-	.6	2.4	1.2	19.3	17.3
32	Stone, clay, and glass products.....	.3	.2	-	.2	2.7	.6	4.1	14.7	24.4
33	Primary metal products.....	.5	.5	11.2	.8	.6	12.5	4.2	18.9	17.4
331	Steel works and rolling mill products.....	.5	.5	11.5	.8	.7	12.7	4.3	18.7	17.4
3312	Primary iron and steel products (except coke-oven products).....	.5	.5	13.1	.9	.8	14.6	4.9	21.3	18.4
33123	Sheet and strip, iron and steel (except tin mill products).....	-	1.0	31.0	-	.1	.3	-	15.9	19.2
33126	Steel pipe, tubes, and fittings.....	-	.2	9.4	5.4	.4	1.9	8.7	26.2	37.0
332	Iron and steel castings.....	.1	-	-	-	-	-	3.2	15.0	20.8
335	Nonferrous metal basic shapes.....	-	2.1	.6	-	.2	.1	4.7	20.4	18.0
34	Fabricated metal products.....	.8	2.4	4.6	-	4.4	3.5	9.6	23.6	23.8
344	Structural and miscellaneous metal products.....	-	2.3	5.0	-	5.7	4.2	7.6	25.4	23.9
349	Miscellaneous fabricated metal products.....	-	.2	5.1	.3	.1	1.1	1.7	22.9	39.5
35	Machinery, except electrical.....	1.0	.3	5.0	.6	.5	.4	5.9	32.2	13.1
36	Electrical machinery and equipment....	2.1	9.4	2.7	3.4	18.5	8.5	1.4	20.0	15.1
361	Electrical transmission and distribution equipment.....	.7	3.3	3.4	.5	1.2	7.6	3.5	35.6	25.5

¹See description of production areas on page 313.²Includes only those shipments that originated in one city in this area and terminated in another city in this area.

Production Area 13

Production Area 13 consists of four standard metropolitan statistical areas: Detroit, Mich.; Flint, Mich.; Toledo, Ohio-Mich.; and Ann Arbor, Mich.

Data are based on 243 plants from which 27,825 shipping documents were sampled. The sampling variability on the estimated 35.4 million tons shipped from Production Area 13 is \pm 13.9 percent.

Major commodity groups shipped from Production Area 13 and their area of destinations are summarized in table A below.

Table A.—DISTRIBUTION OF TONS OF COMMODITIES SHIPPED FROM PRODUCTION AREA 13, BY AREA OF DESTINATION

TCC code	Commodity class	Total tons (thousands)	Percent distribution by destination area			
			Production Area 13 ¹	Other production areas	Other SMSA's	Balance of country
	Total.....	235,443	26.9	37.7	14.3	21.1
20	Food and kindred products.....	2,769	9.0	41.0	22.6	27.4
28	Chemicals and allied products.....	4,380	12.1	34.0	16.6	37.3
29	Petroleum and coal products.....	1,905	26.1	41.2	7.3	25.4
30	Rubber and miscellaneous plastics products...	287	21.4	37.5	13.7	27.4
33	Primary metal products.....	5,526	46.0	26.1	13.2	14.7
34	Fabricated metal products.....	895	19.1	44.1	13.8	23.0
35	Machinery, except electrical.....	976	15.3	32.7	28.6	23.4
36	Electrical machinery and equipment.....	338	9.0	63.4	16.0	11.6
37	Transportation equipment.....	11,252	11.0	58.2	16.9	13.9
38	Instruments, photographic goods, optical goods, watches, and clocks.....	67	53.6	30.3	10.8	5.3

¹Includes only those shipments that originated in one city in this area and terminated in another city in this area.

²Includes commodity classes not shown separately.

TABLE 1. Tons of Shipments—Means of Transport and Commodity: 1963

JCC code	Commodity	Tons (thous.)	Percent distribution by means of transport								Sampling variability code ¹
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown	
	Total.....	35,443	100.0	45.6	29.5	21.6	0.1	2.8	0.3	0.1	
20	Food and kindred products.....	2,769	100.0	71.3	6.8	20.8	-	-	-	1.1	e
201	Meat, poultry, and small game; fresh, chilled or frozen.....	153	100.0	32.2	30.2	37.3	-	-	-	.3	d
28	Chemicals and allied products.....	4,380	100.0	60.6	28.6	8.7	-	1.6	.5	-	b
281	Industrial chemicals.....	3,381	100.0	72.7	16.1	9.2	-	2.0	-	-	b
285	Paints, varnishes, lacquers, enamels, and allied products.....	265	100.0	6.8	78.4	8.6	.1	-	6.1	-	b
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	242	100.0	7.4	77.9	9.1	-	-	5.6	-	c
29	Petroleum and coal products.....	1,905	100.0	11.8	28.2	14.3	-	45.6	.1	-	a
30	Rubber and miscellaneous plastics products.....	287	100.0	49.6	44.2	5.5	.1	-	.6	-	b
33	Primary metal products.....	5,526	100.0	42.0	55.2	2.6	-	-	.2	-	a
331	Steel works and rolling mill products	4,837	100.0	43.1	55.4	1.3	-	-	.2	-	a
3312	Primary iron and steel products (except coke-oven products).....	4,582	100.0	40.5	57.9	1.4	-	-	.2	-	a
332	Iron and steel castings.....	165	100.0	23.1	68.8	8.1	-	-	-	-	a
335	Nonferrous metal basic shapes.....	83	100.0	8.0	84.7	4.8	.2	-	1.2	1.1	b
336	Nonferrous and nonferrous base alloy castings.....	73	100.0	2.4	63.9	33.6	-	-	.1	-	b
34	Fabricated metal products.....	895	100.0	33.9	52.6	11.7	.5	-	1.2	.1	b
342	Cutlery, hand tools, and general hardware.....	65	100.0	1.7	67.5	17.9	.3	-	12.6	-	e
344	Structural and miscellaneous metal products.....	158	100.0	8.6	61.5	29.7	.1	-	.1	-	e
345	Bolts, nuts, screws, rivets, washers, and other industrial fasteners.....	43	100.0	.5	79.9	18.5	.2	-	.9	-	c
349	Miscellaneous fabricated metal products.....	156	100.0	24.8	62.7	11.3	.3	-	.9	-	e
35	Machinery, except electrical.....	976	100.0	27.1	59.8	11.2	.7	-	1.1	.1	c
354	Metalworking machinery and equipment.....	131	100.0	-	79.1	19.6	.3	-	1.0	-	d
3544	Special dies and tools, die sets, jigs, and fixtures.....	93	100.0	-	96.8	2.9	.2	-	.1	-	d
356	General industrial machinery and equipment.....	165	100.0	35.7	44.5	18.9	.2	.1	.6	-	d
3566	Mechanical power transmission equipment, except ball and roller bearings.....	46	100.0	.1	59.2	39.6	.1	-	1.0	-	e
359	Miscellaneous machinery and parts (except electrical).....	157	100.0	.1	83.5	13.7	1.0	-	1.7	-	d
36	Electrical machinery and equipment...	338	100.0	23.2	71.8	2.4	.2	-	2.4	-	b
37	Transportation equipment.....	11,252	100.0	61.8	30.4	6.8	.1	.6	.2	.1	a
371	Motor vehicles and motor vehicle equipment.....	11,088	100.0	61.3	30.8	6.9	.1	.6	.2	.1	a
3711	Motor vehicles.....	3,909	100.0	42.4	55.0	.4	-	1.8	.3	.1	a
37111	Passenger cars, assembled.....	2,665	100.0	37.0	60.9	.3	-	1.3	.4	.1	a
3714	Motor vehicle parts and accessories..	5,257	100.0	75.2	18.6	5.8	.1	-	.2	.1	b
37141	Motor vehicle parts (except gear frames and internal combustion engines).....	2,661	100.0	79.0	17.2	3.1	.2	-	.3	.2	c
38	Instruments, photographic goods, optical goods, watches, and clocks..	67	100.0	9.9	75.0	8.4	.7	.8	5.2	-	d

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 2. Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Ton-miles (millions)	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
	Total.....	11,425	100.0	72.2	20.1	4.9	0.2	2.2	0.3	0.1
20	Food and kindred products.....	672	100.0	83.8	5.6	9.9	-	-	-	.7
201	Meat, poultry, and small game; fresh, chilled or frozen.....	48	100.0	49.3	28.6	22.0	-	-	-	.1
28	Chemicals and allied products.....	1,483	100.0	72.4	22.2	3.0	-	2.1	.3	-
281	Industrial chemicals.....	1,052	100.0	86.0	8.2	2.8	-	3.0	-	-
285	Paints, varnishes, lacquers, enamels, and allied products.....	87	100.0	15.5	77.1	3.5	.4	-	3.5	-
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	77	100.0	17.5	75.7	3.9	.1	-	2.8	-
29	Petroleum and coal products.....	286	100.0	18.4	11.0	6.8	-	63.4	.4	-
30	Rubber and miscellaneous plastics products.....	151	100.0	67.9	25.9	5.4	.2	-	.6	-
33	Primary metal products.....	666	100.0	52.9	44.2	2.2	-	-	.5	.2
331	Steel works and rolling mill products.....	532	100.0	56.0	41.8	1.9	-	-	.3	-
3312	Primary iron and steel products (except coke-oven products).....	509	100.0	54.8	43.0	2.0	-	-	.2	-
332	Iron and steel castings.....	19	100.0	28.8	67.5	3.5	-	-	.2	-
335	Nonferrous metal basic shapes.....	38	100.0	26.3	65.4	1.1	.5	-	3.9	2.8
336	Nonferrous and nonferrous base alloy castings.....	13	100.0	2.3	78.9	18.4	.1	-	.3	-
34	Fabricated metal products.....	326	100.0	47.8	46.7	3.7	1.4	-	.4	-
342	Cutlery, hand tools, and general hardware..	23	100.0	.9	78.8	17.3	.6	-	2.4	-
344	Structural and miscellaneous metal products.....	44	100.0	9.4	79.8	10.4	.1	-	.3	-
345	Bolts, nuts, screws, rivets, washers, and other industrial fasteners.....	11	100.0	.9	92.1	4.1	.3	-	2.6	-
349	Miscellaneous fabricated metal products....	62	100.0	37.8	59.1	1.9	.7	-	.5	-
35	Machinery, except electrical.....	482	100.0	45.7	49.4	1.7	1.2	-	1.9	.1
354	Metalworking machinery and equipment.....	29	100.0	-	91.9	3.4	2.3	-	2.4	-
3544	Special dies and tools, die sets, jigs, and fixtures.....	11	100.0	-	98.2	.6	1.1	-	.1	-
356	General industrial machinery and equipment.....	81	100.0	71.9	24.6	2.5	.2	.1	.7	-
3566	Mechanical power transmission equipment, except ball and roller bearings.....	9	100.0	.2	85.3	11.3	.6	-	2.6	-
359	Miscellaneous machinery and parts (except electrical).....	100	100.0	-	93.9	1.3	.9	-	3.9	-
36	Electrical machinery and equipment.....	149	100.0	25.4	68.0	.3	.4	-	5.9	-
37	Transportation equipment.....	6,479	100.0	83.1	14.3	1.9	.1	.5	.1	-
371	Motor vehicles and motor vehicle equipment.....	6,417	100.0	83.0	14.4	1.9	.1	.5	.1	-
3711	Motor vehicles.....	2,313	100.0	73.6	24.8	.1	-	1.4	-	.1
37111	Passenger cars, assembled.....	1,402	100.0	69.9	28.7	.1	-	1.2	-	.1
3714	Motor vehicle parts and accessories.....	2,964	100.0	91.7	7.2	.9	.1	-	.1	-
37141	Motor vehicle parts (except gear frames and internal combustion engines).....	1,621	100.0	93.7	5.7	.2	.2	-	.2	-
38	Instruments, photographic goods, optical goods, watches, and clocks.....	16	100.0	2.6	76.6	.5	2.2	1.6	16.5	-

TABLE 3. Tons of Shipments—Distance and Commodity:
1963

TCC code	Commodity	Tons (thous.)	Percent distribution by distance of shipment								Sampling variability code ¹
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over	
	Total.....	35,443	100.0	38.3	11.4	15.0	18.4	10.9	1.4	4.6	
20	Food and kindred products.....	2,769	100.0	22.5	25.9	27.7	8.3	15.5	.1	-	e
201	Meat, poultry, and small game; fresh, chilled or frozen.....	153	100.0	20.0	15.8	21.9	19.2	23.0	-	.1	d
28	Chemicals and allied products.....	4,380	100.0	18.2	11.2	17.9	40.5	9.6	1.2	1.4	b
281	Industrial chemicals.....	3,381	100.0	17.3	11.8	17.6	45.4	6.8	.9	.2	b
285	Paints, varnishes, lacquers, enamels, and allied products.....	265	100.0	31.3	8.7	11.7	27.1	18.4	2.2	.6	b
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	242	100.0	33.2	9.0	11.8	24.8	18.3	2.4	.5	c
29	Petroleum and coal products.....	1,905	100.0	54.1	9.8	27.1	8.2	.8	-	-	a
30	Rubber and miscellaneous plastics products.....	287	100.0	28.2	8.0	8.1	16.5	23.5	5.4	10.3	b
33	Primary metal products.....	5,526	100.0	59.3	16.5	16.3	5.8	1.7	.1	.3	a
331	Steel works and rolling mill products	4,837	100.0	61.5	17.3	14.7	4.6	1.7	-	.2	a
3312	Primary iron and steel products (except coke-oven products).....	4,582	100.0	61.8	16.0	15.4	4.9	1.7	-	.2	a
332	Iron and steel castings.....	165	100.0	62.1	12.9	24.5	.2	.2	-	.1	a
335	Nonferrous metal basic shapes.....	83	100.0	20.6	17.1	17.4	17.4	15.6	5.8	6.1	b
336	Nonferrous and nonferrous base alloy castings.....	73	100.0	51.9	14.2	9.8	22.7	1.1	-	.3	b
34	Fabricated metal products.....	895	100.0	30.7	10.0	15.6	21.3	16.8	1.0	4.6	b
342	Cutlery, hand tools, and general hardware.....	65	100.0	41.3	14.5	15.4	7.3	9.0	5.9	6.6	e
344	Structural and miscellaneous metal products.....	158	100.0	29.3	17.8	9.8	26.8	13.9	2.1	.3	e
345	Bolts, nuts, screws, rivets, washers, and other industrial fasteners.....	43	100.0	35.9	24.9	14.6	15.3	6.8	.6	1.9	c
349	Miscellaneous fabricated metal products.....	156	100.0	17.2	7.4	28.3	26.1	17.4	.2	3.4	e
35	Machinery, except electrical.....	976	100.0	30.7	9.9	7.9	12.9	27.0	2.6	9.0	c
354	Metalworking machinery and equipment.	131	100.0	52.8	24.4	12.2	2.8	1.6	.2	6.0	d
3544	Special dies and tools, die sets, jigs, and fixtures.....	93	100.0	48.8	32.6	15.1	2.1	.8	.2	.4	d
356	General industrial machinery and equipment.....	165	100.0	27.6	18.1	3.3	11.4	28.3	.6	10.7	d
3566	Mechanical power transmission equipment, except ball and roller bearings.....	46	100.0	39.2	38.4	4.6	13.5	1.3	.3	2.7	e
359	Miscellaneous machinery and parts (except electrical).....	157	100.0	38.8	7.2	5.0	7.7	19.7	1.1	20.5	d
36	Electrical machinery and equipment...	338	100.0	15.2	5.0	22.9	23.5	23.8	7.0	2.6	b
37	Transportation equipment.....	11,252	100.0	15.7	9.7	11.9	28.2	19.0	3.3	12.2	a
371	Motor vehicles and motor vehicle equipment.....	11,088	100.0	15.8	9.8	11.4	28.1	19.2	3.3	12.4	a
3711	Motor vehicles.....	3,909	100.0	10.8	10.6	19.9	20.4	21.7	4.5	12.1	a
37111	Passenger cars, assembled.....	2,665	100.0	13.4	12.2	23.0	18.6	19.0	3.7	10.1	a
3714	Motor vehicle parts and accessories..	5,257	100.0	22.3	3.9	6.7	31.7	21.0	2.8	11.6	b
37141	Motor vehicle parts (except gear frames and internal combustion engines).....	2,661	100.0	21.4	3.5	6.2	34.1	17.6	3.0	14.2	c
38	Instruments, photographic goods, optical goods, watches, and clocks..	67	100.0	56.0	23.6	2.2	4.9	7.4	1.3	4.6	d

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5	6	7	8
	Total.....	35,443	100.0	0.6	0.3	1.8	3.0	3.1	0.8	0.5	-
20	Food and kindred products.....	2,769	100.0	1.2	1.3	.8	.8	.5	1.1	.8	-
201	Meat, poultry, and small game; fresh, chilled or frozen.....	153	100.0	10.8	.7	2.9	2.2	8.6	.3	3.9	-
28	Chemicals and allied products.....	4,380	100.0	.3	.3	3.1	8.7	3.1	.6	1.2	-
281	Industrial chemicals.....	3,381	100.0	.2	-	2.3	9.6	3.4	.6	1.6	-
285	Paints, varnishes, lacquers, enamels, and allied products.....	265	100.0	1.1	.1	1.5	3.0	4.2	1.3	-	.3
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	242	100.0	1.2	.1	1.0	3.3	1.3	1.4	.1	.3
29	Petroleum and coal products.....	1,905	100.0	-	-	.1	1.5	.4	.5	-	-
30	Rubber and miscellaneous plastics products.....	287	100.0	-	-	3.2	1.1	3.0	-	-	.1
33	Primary metal products.....	5,526	100.0	-	-	.6	.1	.3	.9	-	-
331	Steel works and rolling mill products.....	4,837	100.0	-	-	.7	-	.3	.9	-	-
3312	Primary iron and steel products (except coke-oven products).....	4,582	100.0	-	-	.7	-	.3	1.0	-	-
332	Iron and steel castings.....	165	100.0	-	-	-	-	-	-	-	-
335	Nonferrous metal basic shapes.....	83	100.0	1.5	2.2	1.4	.1	3.0	6.2	-	-
336	Nonferrous and nonferrous base alloy castings.....	73	100.0	-	-	-	.4	.3	-	-	-
34	Fabricated metal products.....	895	100.0	1.3	1.6	1.5	5.7	2.7	.5	.2	.1
342	Cutlery, hand tools, and general hardware.....	65	100.0	.2	-	2.4	.9	.3	1.3	-	-
344	Structural and miscellaneous metal products.....	158	100.0	3.2	2.6	1.8	.9	2.1	2.0	.4	-
345	Bolts, nuts, screws, rivets, washers, and other industrial fasteners.....	43	100.0	.3	.3	1.0	-	5.8	-	2.9	1.0
349	Miscellaneous fabricated metal products.....	156	100.0	.1	.1	.1	.4	7.9	.1	-	-
35	Machinery, except electrical.....	976	100.0	1.4	.1	1.5	3.0	.9	1.7	.2	-
354	Metalworking machinery and equipment..	131	100.0	.6	.1	.1	.9	.2	-	-	-
3544	Special dies and tools, die sets, jigs, and fixtures.....	93	100.0	.1	.1	-	-	.3	-	-	-
356	General industrial machinery and equipment.....	165	100.0	.4	.1	2.3	14.4	1.6	-	.3	-
3566	Mechanical power transmission equip- ment, except ball and roller bearings	46	100.0	.3	.2	.1	.2	5.1	-	1.0	-
359	Miscellaneous machinery and parts (except electrical).....	157	100.0	6.4	.3	1.0	1.5	1.5	.2	.7	-
36	Electrical machinery and equipment....	338	100.0	.9	.1	25.8	1.6	2.2	.1	.1	-
37	Transportation equipment.....	11,252	100.0	1.1	.3	2.7	4.6	7.7	1.3	.4	.1
371	Motor vehicles and motor vehicle equipment.....	11,088	100.0	1.1	.3	2.6	4.6	7.8	1.3	.4	.1
3711	Motor vehicles.....	3,909	100.0	1.8	.9	4.7	3.0	2.1	1.3	.2	.2
37111	Passenger cars, assembled.....	2,665	100.0	1.7	.8	3.3	3.6	2.1	1.1	.2	.2
3714	Motor vehicle parts and accessories...	5,257	100.0	.6	-	1.3	7.0	9.2	1.6	.6	-
37141	Motor vehicle parts (except gear frames and internal combustion engines).....	2,661	100.0	.3	-	.8	8.3	13.0	.5	-	-
38	Instruments, photographic goods, optical goods, watches, and clocks...	67	100.0	.4	.1	1.6	.5	.6	.1	.4	.1

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13 ²	14	15	16	17	18
	Total.....	0.6	3.6	4.2	1.3	26.9	3.4	3.7	1.0	0.6	2.9
20	Food and kindred products.....	1.3	12.8	8.4	.9	9.0	8.2	2.4	.4	-	-
201	Meat, poultry, and small game; fresh, chilled or frozen.....	.2	-	10.9	-	2.9	-	7.0	7.2	-	-
28	Chemicals and allied products.....	.1	1.0	1.1	.8	12.1	1.0	5.8	.8	.4	2.2
281	Industrial chemicals.....	.1	.2	.4	.6	11.1	1.0	5.6	.2	.3	2.3
285	Paints, varnishes, lacquers, enamels, and allied products.....	.1	.3	2.1	1.3	23.6	3.8	1.9	2.6	.9	3.5
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	.1	.2	2.1	1.4	25.0	4.1	1.4	2.8	.5	3.5
29	Petroleum and coal products.....	-	27.9	10.2	-	26.1	.5	.1	-	-	-
30	Rubber and miscellaneous plastics products.....	.2	.2	1.3	.1	21.4	.2	6.0	-	2.9	3.0
33	Primary metal products.....	1.4	2.8	6.3	3.2	46.0	1.3	5.5	3.3	-	-
331	Steel works and rolling mill products.....	.5	3.1	5.8	3.6	48.2	1.3	6.2	1.6	-	-
3312	Primary iron and steel products (except coke-oven products).....	.5	3.3	6.1	1.7	47.9	1.3	6.5	1.6	-	-
332	Iron and steel castings.....	-	-	23.1	-	27.8	2.5	.1	12.0	-	-
335	Nonferrous metal basic shapes.....	.1	.7	13.0	2.1	5.3	1.8	4.3	2.0	.7	.1
336	Nonferrous and nonferrous base alloy castings.....	-	4.9	11.8	-	34.8	5.8	.9	3.4	.1	1.6
34	Fabricated metal products.....	.7	1.7	7.3	.1	19.1	2.7	4.2	.4	2.8	4.4
342	Cutlery, hand tools, and general hardware.....	.1	.6	4.5	-	27.4	4.0	9.5	2.0	-	.4
344	Structural and miscellaneous metal products.....	2.3	2.2	14.3	.1	24.9	4.0	.9	-	.2	.7
345	Bolts, nuts, screws, rivets, washers, and other industrial fasteners.....	-	.9	8.1	.8	26.6	6.5	4.2	1.1	.9	.5
349	Miscellaneous fabricated metal products.....	-	-	.5	-	12.3	2.3	.1	-	-	13.2
35	Machinery, except electrical.....	.3	.2	7.8	.1	15.3	.6	1.4	1.8	.5	1.1
354	Metalworking machinery and equipment.....	.4	1.0	14.2	.3	29.3	.5	3.3	.1	-	-
3544	Specials dies and tools, die sets, jigs, and fixtures.....	.4	1.2	18.7	.4	40.2	.4	4.4	-	-	-
356	General industrial machinery and equipment.....	-	.1	2.0	-	23.3	.8	.9	.4	.1	2.8
3566	Mechanical power transmission equipment, except ball and roller bearings.....	-	-	.6	-	29.1	.6	1.5	.2	.2	-
359	Miscellaneous machinery and parts (except electrical).....	.1	.2	28.3	-	12.5	1.2	1.1	1.7	.3	1.7
36	Electrical machinery and equipment.....	6.0	5.5	1.7	1.2	9.0	4.4	10.1	.3	.4	.2
37	Transportation equipment.....	.6	1.2	3.0	.7	11.0	6.4	2.6	.9	1.3	7.4
371	Motor vehicles and motor vehicle equipment.....	.6	1.2	3.0	.7	11.0	6.5	2.6	.9	1.3	7.4
3711	Motor vehicles.....	1.3	2.8	5.5	1.8	7.4	1.9	5.2	1.4	1.4	.7
37111	Passenger cars, assembled.....	1.5	3.3	6.8	1.8	9.7	2.5	6.4	1.8	1.1	.7
3714	Motor vehicle parts and accessories.....	.2	.3	2.1	.1	15.0	3.4	1.6	.4	1.6	10.2
37141	Motor vehicle parts (except gear frames and internal combustion engines).....	-	.5	2.8	-	16.3	3.7	1.4	.3	1.1	12.2
38	Instruments, photographic goods, optical goods, watches, and clocks.....	-	.1	17.6	-	53.6	1.5	1.0	.3	.1	.7

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									Sampling variability code ³
		19	20	21	22	23	24	25	30	50	
	Total.....	1.4	0.7	0.1	0.1	0.2	0.9	2.9	14.3	21.1	
20	Food and kindred products.....	-	-	-	.1	-	-	-	22.6	27.4	e
201	Meat, poultry, and small game; fresh, chilled or frozen.....	-	-	-	-	.1	-	-	3.5	38.8	d
28	Chemicals and allied products.....	1.0	.4	.7	-	-	.3	1.1	16.6	37.3	b
281	Industrial chemicals.....	.1	.1	.7	-	-	-	.2	15.5	43.9	b
285	Paints, varnishes, lacquers, enamels, and allied products.....	2.1	1.4	2.0	-	-	.1	.3	24.2	18.3	b
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	2.3	1.3	2.2	-	-	.1	.3	24.9	19.1	c
29	Petroleum and coal products.....	-	-	-	-	-	-	-	7.3	25.4	a
30	Rubber and miscellaneous plastics products.....	5.7	-	.1	.1	.3	.1	9.9	13.7	27.4	b
33	Primary metal products.....	.1	.1	-	-	-	-	.2	13.2	14.7	a
331	Steel works and rolling mill products.....	-	-	-	-	-	-	.2	13.7	13.9	a
3312	Primary iron and steel products (except coke-oven products).....	-	-	-	-	-	-	.2	14.5	14.4	a
332	Iron and steel castings.....	-	-	-	-	-	-	.1	18.7	15.7	a
335	Nonferrous metal basic shapes.....	3.4	2.8	.8	.4	.1	2.4	3.3	13.7	28.6	b
336	Nonferrous and nonferrous base alloy castings.....	.2	.3	-	-	-	-	.2	10.5	24.8	b
34	Fabricated metal products.....	1.0	.8	.1	-	-	1.0	3.3	13.8	23.0	b
342	Cutlery, hand tools, and general hardware.....	3.0	.2	.2	-	.1	1.0	5.3	30.1	6.5	e
344	Structural and miscellaneous metal products.....	1.4	.4	-	.2	-	-	-	26.9	8.5	e
345	Bolts, nuts, screws, rivets, washers, and other industrial fasteners.....	.6	.7	.1	-	-	1.8	-	14.8	21.1	c
349	Miscellaneous fabricated metal products.....	.1	-	-	-	-	.1	2.9	2.2	57.6	e
35	Machinery, except electrical.....	.9	2.6	.1	.5	.8	3.2	2.0	28.6	23.4	c
354	Metalworking machinery and equipment..	.1	.1	-	.1	5.4	.1	.5	22.2	20.5	d
3544	Special dies and tools, die sets, jigs, and fixtures.....	-	.1	-	.1	-	-	.4	13.4	19.8	d
356	General industrial machinery and equipment.....	.3	2.5	-	-	.2	9.7	.2	10.3	27.3	d
3566	Mechanical power transmission equipment, except ball and roller bearings	-	.2	-	-	.5	.8	.1	16.7	42.6	e
359	Miscellaneous machinery and parts (except electrical).....	1.0	2.0	-	-	.2	7.9	10.4	9.9	9.9	d
36	Electrical machinery and equipment....	.1	1.1	.3	-	.1	.6	.6	16.0	11.6	b
37	Transportation equipment.....	3.5	1.5	.1	.2	.5	2.3	7.8	16.9	13.9	a
371	Motor vehicles and motor vehicle equipment.....	3.5	1.6	.1	.2	.5	2.4	7.9	16.7	13.7	a
3711	Motor vehicles.....	.7	.9	.2	.7	.9	2.6	5.2	21.8	23.4	a
37111	Passenger cars, assembled.....	.8	.8	.2	.7	.3	2.4	5.3	20.6	20.3	a
3714	Motor vehicle parts and accessories...	6.7	2.2	-	-	.4	2.7	7.7	16.8	8.3	b
37141	Motor vehicle parts (except gear frames and internal combustion engines).....	3.7	1.8	-	-	-	3.6	10.3	12.9	6.5	c
38	Instruments, photographic goods, optical goods, watches, and clocks...	1.7	.2	.1	.1	.5	.9	1.7	10.8	5.3	d

¹See description of production areas on page 313.²Includes only those shipments that originated in one city in this area and terminated in another city in this area.³Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 5. Ton-Miles of Shipments—Production Area Destination and Commodity: 1963

TCC code	Commodity	Ton-miles (millions)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5	6	7	8
	Total.....	11,425	100.0	1.2	0.5	2.7	4.5	4.2	1.0	0.6	-
20	Food and kindred products.....	672	100.0	3.0	2.9	1.5	1.5	1.0	1.7	1.4	-
201	Meat, poultry, and small game; fresh, chilled or frozen.....	48	100.0	21.2	1.2	4.5	3.3	12.2	.4	5.1	-
28	Chemicals and allied products.....	1,483	100.0	.5	.5	4.4	12.3	4.0	.8	1.6	-
281	Industrial chemicals.....	1,052	100.0	.4	-	3.5	14.7	4.9	.8	2.2	-
285	Paints, varnishes, lacquers, enamels, and allied products.....	87	100.0	2.0	.1	2.2	4.3	5.7	1.8	.1	0.3
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	77	100.0	2.2	.1	1.5	4.9	1.7	2.0	.1	.3
29	Petroleum and coal products.....	286	100.0	-	-	.4	4.8	1.2	1.4	-	-
30	Rubber and miscellaneous plastics products.....	151	100.0	-	-	2.9	1.0	2.4	-	-	.1
33	Primary metal products.....	666	100.0	.2	.1	2.5	.4	1.2	3.0	-	-
331	Steel works and rolling mill products	532	100.0	-	-	3.0	.1	1.3	3.4	-	-
3312	Primary iron and steel products (except coke-oven products).....	509	100.0	-	-	3.1	.1	1.3	3.5	-	-
332	Iron and steel castings.....	19	100.0	-	-	.1	-	-	.1	.1	-
335	Nonferrous metal basic shapes.....	38	100.0	2.0	2.5	1.5	.1	2.9	5.4	-	-
336	Nonferrous and nonferrous base alloy castings.....	13	100.0	-	-	-	1.2	.7	-	-	-
34	Fabricated metal products.....	326	100.0	2.2	2.3	2.1	7.4	3.2	.6	.2	.1
342	Cutlery, hand tools, and general hardware.....	23	100.0	.4	-	3.4	1.3	.4	1.6	-	-
344	Structural and miscellaneous metal products.....	44	100.0	7.0	5.0	3.2	1.5	3.3	2.8	.6	-
345	Bolts, nuts, screws, rivets, washers, and other industrial fasteners.....	11	100.0	.7	.7	1.9	.1	10.4	-	4.8	1.4
349	Miscellaneous fabricated metal products.....	62	100.0	.1	.1	.1	.5	8.4	.1	-	-
35	Machinery, except electrical.....	482	100.0	1.8	.2	1.5	3.1	.8	1.3	.2	-
354	Metalworking machinery and equipment.	29	100.0	1.7	.3	.2	1.9	.5	.1	-	-
3544	Special dies and tools, die sets, jigs, and fixtures.....	11	100.0	.5	.4	-	.1	1.1	.2	-	-
356	General industrial machinery and equipment.....	81	100.0	.6	.1	2.2	14.9	1.4	-	.2	-
3566	Mechanical power transmission equipment, except ball and roller bearings.....	9	100.0	.8	.5	.3	.5	10.9	-	2.1	-
359	Miscellaneous machinery and parts (except electrical).....	100	100.0	6.5	.2	.8	1.1	1.1	.1	.5	-
36	Electrical machinery and equipment...	149	100.0	1.2	.1	30.1	1.7	2.3	.1	.1	-
37	Transportation equipment.....	6,479	100.0	1.2	.3	2.3	3.9	5.8	1.0	.3	-
371	Motor vehicles and motor vehicle equipment.....	6,417	100.0	1.2	.3	2.2	3.9	5.8	1.0	.3	-
3711	Motor vehicles.....	2,313	100.0	1.9	.8	4.0	2.5	1.6	.9	.2	.1
37111	Passenger cars, assembled.....	1,402	100.0	2.1	.8	3.2	3.4	1.8	.8	.2	.1
3714	Motor vehicle parts and accessories..	2,964	100.0	.6	-	1.2	6.1	7.2	1.3	.5	-
37141	Motor vehicle parts (except gear frames and internal combustion engines).....	1,621	100.0	.3	-	.7	6.7	9.2	.3	-	-
38	Instruments, photographic goods, optical goods, watches, and clocks..	16	100.0	1.1	.3	3.3	1.0	1.2	.1	.7	.1

See footnotes at end of table.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13 ²	14	15	16	17	18
	Total.....	0.7	2.7	1.4	0.8	2.2	2.1	2.6	0.8	1.0	4.0
20	Food and kindred products.....	2.2	11.5	3.6	.7	1.4	7.5	2.3	.4	.1	.1
201	Meat, poultry, and small game; fresh, chilled or frozen.....	.3	-	3.5	-	.2	-	5.3	5.8	-	-
28	Chemicals and allied products.....	.1	.7	.3	.5	1.1	.6	3.9	.6	.7	2.9
281	Industrial chemicals.....	.2	.1	.1	.4	1.1	.6	4.1	.1	.4	3.2
285	Paints, varnishes, lacquers, enamels, and allied products.....	.1	.2	.7	.8	2.8	2.6	1.4	2.0	1.5	4.8
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	.1	.1	.7	.9	3.0	2.9	1.1	2.2	.9	5.0
29	Petroleum and coal products.....	-	48.2	7.8	-	7.3	.5	.1	-	-	-
30	Rubber and miscellaneous plastics products.....	.1	.1	.2	-	1.7	.1	2.7	-	3.0	2.6
33	Primary metal products.....	4.5	5.2	5.4	5.1	8.7	2.1	10.5	6.6	.1	.1
331	Steel works and rolling mill products.....	2.1	6.3	5.6	6.3	9.6	2.3	12.9	3.4	-	.1
3312	Primary iron and steel products (except coke-oven products).....	2.2	6.6	5.8	3.1	9.7	2.4	13.5	3.5	-	.1
332	Iron and steel castings.....	-	-	19.4	-	6.5	4.1	.2	26.2	-	-
335	Nonferrous metal basic shapes.....	.1	.4	2.6	1.0	.3	.8	2.3	1.1	.8	.1
336	Nonferrous and nonferrous base alloy castings.....	-	7.7	6.2	-	9.5	5.6	1.1	4.3	.2	3.5
34	Fabricated metal products.....	.7	1.1	1.9	-	2.1	1.5	2.6	.3	4.1	5.5
342	Cutlery, hand tools, and general hardware.....	.1	.4	1.4	-	2.1	2.2	6.1	1.4	.1	.5
344	Structural and miscellaneous metal products.....	3.5	2.2	5.9	.1	3.7	3.3	.8	-	.5	1.1
345	Bolts, nuts, screws, rivets, washers, and other industrial fasteners.....	-	.7	3.0	.7	3.0	5.2	4.1	1.1	2.0	1.0
349	Miscellaneous fabricated metal products.....	-	-	.1	-	1.3	.8	.1	-	-	15.3
35	Machinery, except electrical.....	.2	.1	1.5	-	1.0	.3	.6	.9	.5	1.0
354	Metalworking machinery and equipment..	.6	1.0	7.2	.3	3.7	.5	3.6	.1	.1	.1
3544	Special dies and tools, die sets, jigs, and fixtures.....	1.3	2.3	18.0	.8	9.6	.8	9.0	-	-	-
356	General industrial machinery and equipment.....	-	.1	.4	-	1.9	.3	.4	.2	.1	2.5
3566	Mechanical power transmission equipment, except ball and roller bearings.....	.1	.1	.3	-	3.5	.7	1.8	.2	.5	-
359	Miscellaneous machinery and parts (except electrical).....	.1	.1	4.1	-	.8	.4	.4	.7	.2	1.2
36	Electrical machinery and equipment....	5.6	3.1	.4	.7	.8	2.6	5.2	.1	.5	.3
37	Transportation equipment.....	.4	.5	.6	.3	.7	2.2	1.1	.4	1.2	5.8
371	Motor vehicles and motor vehicle equipment.....	.4	.5	.7	.3	.7	2.2	1.1	.4	1.2	5.8
3711	Motor vehicles.....	.9	1.2	1.3	.7	.6	.8	2.0	.5	1.2	.5
37111	Passenger cars, assembled.....	1.1	1.6	1.8	.8	.8	1.1	2.8	.8	1.1	.6
3714	Motor vehicle parts and accessories...	.1	.1	.4	-	.9	1.3	.6	.2	1.5	8.1
37141	Motor vehicle parts (except gear frames and internal combustion engines).....	-	.2	.5	-	1.1	1.3	.5	.1	1.0	9.1
38	Instruments, photographic goods, optical goods, watches, and clocks...	-	.2	11.0	-	6.4	1.3	.9	.3	.2	1.3

See footnotes at end of table.

TABLE 5. Ton-Miles of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued								
		19	20	21	22	23	24	25	30	50
	Total.....	2.6	2.0	0.5	0.4	1.3	5.8	17.5	17.8	19.1
20	Food and kindred products.....	.1	-	-	.4	-	-	-	21.6	35.1
201	Meat, poultry, and small game; fresh, chilled or frozen.....	-	-	-	.1	.3	-	-	2.7	33.9
28	Chemicals and allied products.....	1.7	1.0	2.4	.2	.1	1.8	6.2	18.5	32.6
281	Industrial chemicals.....	.1	.2	2.6	.1	.1	-	1.5	16.9	41.7
285	Paints, varnishes, lacquers, enamels, and allied products.....	3.6	4.3	6.8	-	-	.5	1.7	30.8	18.9
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	4.1	3.9	7.7	-	-	.5	2.0	32.1	20.0
29	Petroleum and coal products.....	-	-	-	-	-	-	-	6.3	22.0
30	Rubber and miscellaneous plastics products.....	6.6	-	.1	.2	1.1	.5	37.0	18.2	19.4
33	Primary metal products.....	.3	.5	.1	.1	-	.7	3.3	16.1	23.2
331	Steel works and rolling mill products..	-	.1	-	-	-	.1	3.0	17.4	23.0
3312	Primary iron and steel products (except coke-oven products).....	-	.1	-	-	-	.1	3.1	18.1	23.7
332	Iron and steel castings.....	-	-	-	-	-	.3	.9	23.7	18.4
335	Nonferrous metal basic shapes.....	4.5	6.1	2.0	1.0	.4	11.1	14.1	17.2	19.7
336	Nonferrous and nonferrous base alloy castings.....	.5	1.4	-	-	-	.5	2.0	8.2	47.4
34	Fabricated metal products.....	1.6	2.1	.3	.1	.1	5.5	17.9	15.6	18.9
342	Cutlery, hand tools, and general hardware.....	5.1	.7	.5	.1	.8	6.1	29.4	29.8	6.1
344	Structural and miscellaneous metal products.....	3.0	1.4	-	.7	.2	-	.3	36.6	13.3
345	Bolts, nuts, screws, rivets, washers, and other industrial fasteners.....	1.4	3.0	.6	-	.4	14.7	.3	21.2	17.6
349	Miscellaneous fabricated metal products	.1	-	-	-	-	.5	14.7	1.8	56.0
35	Machinery, except electrical.....	1.1	5.1	.3	1.1	3.1	13.1	7.8	31.6	21.8
354	Metalworking machinery and equipment...	.2	.5	-	.6	47.8	1.3	4.3	12.7	10.7
3544	Special dies and tools, die sets, jigs, and fixtures.....	.1	.7	-	1.4	-	.6	6.1	23.6	23.4
356	General industrial machinery and equipment.....	.3	4.9	-	.1	.6	40.3	.8	8.2	19.5
3566	Mechanical power transmission equipment, except ball and roller bearings.	-	1.2	-	-	5.2	8.7	1.3	32.6	28.7
359	Miscellaneous machinery and parts (except electrical).....	1.0	3.1	-	-	.6	25.5	32.0	10.9	8.6
36	Electrical machinery and equipment....	.1	2.5	.6	.1	.6	2.6	2.8	26.3	9.5
37	Transportation equipment.....	3.7	2.6	.2	.5	1.8	8.3	26.4	17.4	11.1
371	Motor vehicles and motor vehicle equipment.....	3.7	2.7	.2	.5	1.7	8.4	26.6	17.1	11.1
3711	Motor vehicles.....	.7	1.5	.4	1.3	2.9	9.0	17.3	25.7	19.5
37111	Passenger cars, assembled.....	.9	1.5	.4	1.6	1.0	9.4	20.0	24.9	15.4
3714	Motor vehicle parts and accessories....	7.2	3.9	-	-	1.4	9.9	26.7	15.2	5.6
37141	Motor vehicle parts (except gear frames and internal combustion engines).....	3.6	3.0	-	-	.1	12.2	33.4	12.6	4.1
38	Instruments, photographic goods, optical goods, watches, and clocks....	4.6	.9	.5	.2	4.1	7.7	14.3	25.8	12.5

¹See description of production areas on page 313.²Includes only those shipments that originated in one city in this area and terminated in another city in this area.

Production Area 14

Production Area 14 consists of four standard metropolitan statistical areas: Cincinnati, Ohio-Ky.-Ind.; Dayton, Ohio; Hamilton-Middletown, Ohio; and Springfield, Ohio.

Data are based on 147 plants from which 17,055 shipping documents were sampled. The sampling variability on the estimated 12.1 million tons shipped from Production Area 14 is ± 14.3 percent.

Major commodity groups shipped from Production Area 14 and their area of destinations are summarized in table A below.

Table A.—DISTRIBUTION OF TONS OF COMMODITIES SHIPPED FROM PRODUCTION AREA 14, BY AREA OF DESTINATION

TCC code	Commodity class	Total tons (thousands)	Percent distribution by destination area			
			Production Area 14 ¹	Other production areas	Other SMSA's	Balance of country
	Total.....	² 12,061	11.8	38.1	24.7	25.4
20	Food and kindred products.....	2,170	19.9	27.3	26.0	26.8
26	Pulp, paper, and allied products.....	1,383	10.5	48.1	21.7	19.7
28	Chemicals and allied products.....	540	3.8	58.0	26.7	11.5
30	Rubber and miscellaneous plastics products...	104	3.6	38.2	35.6	22.6
33	Primary metal products.....	2,802	18.1	39.8	14.5	27.6
34	Fabricated metal products.....	518	10.4	23.0	26.2	40.4
35	Machinery, except electrical.....	749	2.4	30.2	18.7	48.7
36	Electrical machinery and equipment.....	430	1.2	50.0	31.2	17.6
37	Transportation equipment.....	1,625	2.3	60.7	23.5	13.5
38	Instruments, photographic goods, optical goods, watches, and clocks.....	11	.7	53.8	28.3	17.2

¹Includes only those shipments that originated in one city in this area and terminated in another city in this area.

²Includes commodity classes not shown separately.

TABLE 1. Tons of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by means of transport								Sampling variability code ¹
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown	
	Total.....	12,061	100.0	29.9	48.3	15.2	0.1	5.9	0.4	0.2	
20	Food and kindred products.....	2,170	100.0	42.4	13.1	44.1	-	-	.1	.3	c
201	Meat, poultry, and small game; fresh, chilled or frozen.....	867	100.0	40.5	13.9	45.6	-	-	-	-	d
208	Beverages and flavoring extracts.....	950	100.0	34.9	5.8	58.4	-	-	.3	.6	d
26	Pulp, paper, and allied products.....	1,383	100.0	37.6	54.5	7.6	-	-	.2	.1	d
28	Chemicals and allied products.....	540	100.0	35.4	48.3	15.8	-	-	.5	-	c
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	206	100.0	38.4	61.6	-	-	-	-	-	a
285	Paints, varnishes, lacquers, enamels, and allied products.....	72	100.0	8.0	87.4	3.1	-	-	1.5	-	b
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	68	100.0	8.4	87.0	3.0	-	-	1.6	-	b
30	Rubber and miscellaneous plastics products.....	104	100.0	11.5	83.5	2.5	.1	-	2.4	-	d
33	Primary metal products.....	2,802	100.0	17.3	71.5	11.2	-	-	-	-	c
332	Iron and steel castings.....	267	100.0	25.1	53.0	21.7	-	-	.2	-	e
34	Fabricated metal products.....	518	100.0	6.9	61.9	30.5	.1	-	.6	-	d
349	Miscellaneous fabricated metal products.....	121	100.0	-	92.5	5.6	.2	-	1.7	-	e
35	Machinery, except electrical.....	749	100.0	21.3	74.5	2.1	.2	-	1.8	.1	c
354	Metalworking machinery and equipment.....	222	100.0	47.6	51.4	.6	.1	-	.3	-	e
355	Special industry machinery (except metalworking machinery).....	75	100.0	7.8	79.6	10.0	.2	-	2.2	.2	d
359	Miscellaneous machinery and parts (except electrical).....	96	100.0	31.4	59.9	3.7	.8	-	3.7	.5	d
36	Electrical machinery and equipment...	430	100.0	45.5	41.8	10.6	.3	-	.7	1.1	c
367	Electronic components or accessories.	2	100.0	.3	48.0	37.4	4.1	-	10.2	-	e
37	Transportation equipment.....	1,625	100.0	43.6	51.5	3.2	.4	-	.4	.9	c
371	Motor vehicles and motor vehicle equipment.....	1,547	100.0	45.6	50.5	2.7	.2	-	-	1.0	c
3714	Motor vehicle parts and accessories..	714	100.0	53.4	41.0	5.2	.4	-	-	-	c
38	Instruments, photographic goods, optical goods, watches, and clocks..	11	100.0	.1	89.9	.5	.4	-	9.1	-	e
382	Measuring, controlling, and indicating instruments.....	4	100.0	.4	80.4	.4	.9	-	17.9	-	e

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 2. Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Ton-miles (millions)	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Un-known
	Total.....	3,913	100.0	47.9	42.4	6.3	0.2	2.0	0.9	0.3
20	Food and kindred products.....	539	100.0	69.8	13.3	16.7	-	-	.2	-
201	Meat, poultry, and small game; fresh, chilled or frozen.....	131	100.0	57.4	18.7	23.9	-	-	-	-
208	Beverages and flavoring extracts.....	293	100.0	73.5	6.3	19.9	-	-	.3	-
26	Pulp, paper, and allied products.....	587	100.0	60.0	36.6	3.1	-	-	.3	-
28	Chemicals and allied products.....	211	100.0	45.0	43.4	10.5	-	-	1.1	-
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	86	100.0	49.4	50.6	-	-	-	-	-
285	Paints, varnishes, lacquers, enamels, and allied products.....	30	100.0	10.0	81.1	3.4	-	-	5.5	-
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	28	100.0	10.7	80.2	3.2	-	-	5.9	-
30	Rubber and miscellaneous plastics products.....	56	100.0	16.2	81.6	.2	.1	-	1.9	-
33	Primary metal products.....	679	100.0	32.8	61.9	5.2	-	-	.1	-
332	Iron and steel castings.....	140	100.0	72.1	25.6	2.2	-	-	.1	-
34	Fabricated metal products.....	146	100.0	25.4	58.6	13.3	.1	-	2.6	-
349	Miscellaneous fabricated metal products.....	34	100.0	-	84.2	5.9	.5	-	9.3	.1
35	Machinery, except electrical.....	291	100.0	35.6	58.9	.5	.4	-	4.4	.2
354	Metalworking machinery and equipment.....	125	100.0	53.2	46.1	.2	.3	-	.2	-
355	Special industry machinery (except metalworking machinery).....	31	100.0	1.1	89.3	2.2	.3	-	7.0	.1
359	Miscellaneous machinery and parts (except electrical).....	47	100.0	50.4	41.2	1.0	1.1	-	5.4	.9
36	Electrical machinery and equipment.....	271	100.0	50.5	34.2	12.8	.4	-	1.5	.6
367	Electronic components or accessories.....	(Z)	100.0	.2	31.7	30.8	18.2	-	19.1	-
37	Transportation equipment.....	834	100.0	52.8	43.1	1.9	.5	-	.8	.9
371	Motor vehicles and motor vehicle equipment.....	793	100.0	55.2	42.1	1.5	.2	-	-	1.0
3714	Motor vehicle parts and accessories.....	309	100.0	73.1	23.2	3.2	.5	-	-	-
38	Instruments, photographic goods, optical goods, watches, and clocks.....	9	100.0	.3	92.0	.4	.4	-	6.9	-
382	Measuring, controlling, and indicating instruments.....	3	100.0	1.1	83.4	.2	1.2	-	14.1	-

Z Less than 500,000 ton-miles.

TABLE 3. Tons of Shipments—Distance and Commodity:
1963

TCC code	Commodity	Tons (thous.)	Percent distribution by distance of shipment								Sampling variability code ¹
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over	
	Total.....	12,061	100.0	28.1	15.3	21.2	14.0	16.8	1.4	3.2	
20	Food and kindred products.....	2,170	100.0	40.8	14.4	14.8	18.6	8.9	.6	1.9	c
201	Meat, poultry, and small game; fresh, chilled or frozen.....	867	100.0	53.6	13.9	14.3	16.2	2.0	-	-	d
208	Beverages and flavoring extracts.....	950	100.0	38.4	16.5	14.2	10.9	14.5	1.4	4.1	d
26	Pulp, paper, and allied products.....	1,383	100.0	14.1	5.9	25.3	23.0	25.9	1.2	4.6	d
28	Chemicals and allied products.....	540	100.0	12.4	6.3	30.3	22.6	25.5	.2	2.7	c
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	206	100.0	7.6	10.8	37.4	20.8	17.1	.4	5.9	a
285	Paints, varnishes, lacquers, enamels, and allied products.....	72	100.0	7.9	8.0	25.1	23.2	33.7	.3	1.8	b
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	68	100.0	8.1	8.4	25.8	23.9	31.8	.3	1.7	b
30	Rubber and miscellaneous plastics products.....	104	100.0	6.9	6.5	13.4	31.3	32.4	6.4	3.1	d
33	Primary metal products.....	2,802	100.0	31.5	19.4	29.4	4.9	12.9	.1	1.8	c
332	Iron and steel castings.....	267	100.0	30.7	20.8	10.9	8.5	9.8	.9	18.4	e
34	Fabricated metal products.....	518	100.0	28.0	23.5	25.9	7.9	10.6	.2	3.9	d
349	Miscellaneous fabricated metal products.....	121	100.0	25.2	6.2	46.8	8.6	9.7	.2	3.3	e
35	Machinery, except electrical.....	749	100.0	36.0	5.9	7.9	15.1	27.4	5.0	2.7	c
354	Metalworking machinery and equipment.....	222	100.0	1.8	4.2	10.1	19.9	54.5	7.5	2.0	e
355	Special industry machinery (except metalworking machinery).....	75	100.0	28.7	10.8	12.3	20.0	21.1	.7	6.4	d
359	Miscellaneous machinery and parts (except electrical).....	96	100.0	23.7	5.8	13.8	11.1	29.9	13.5	2.2	d
36	Electrical machinery and equipment...	430	100.0	3.9	10.2	15.0	22.7	35.9	1.1	11.2	c
367	Electronic components or accessories.	2	100.0	45.7	1.7	23.3	13.4	11.4	.3	4.2	e
37	Transportation equipment.....	1,625	100.0	5.8	13.5	18.3	22.1	29.0	4.9	6.4	c
371	Motor vehicles and motor vehicle equipment.....	1,547	100.0	5.6	13.7	18.8	21.7	28.4	5.2	6.6	c
3714	Motor vehicle parts and accessories..	714	100.0	5.0	22.1	31.3	17.0	16.7	.1	7.8	c
38	Instruments, photographic goods, optical goods, watches, and clocks..	11	100.0	1.1	5.8	16.8	15.6	30.0	10.9	19.8	e
382	Measuring, controlling, and indicating instruments.....	4	100.0	2.4	7.5	27.2	20.7	19.2	7.4	15.6	e

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5	6	7	8
	Total.....	12,061	100.0	0.7	0.2	4.9	2.4	1.1	1.3	0.2	0.7
20	Food and kindred products.....	2,170	100.0	.5	.2	1.4	.7	.6	1.6	-	.9
201	Meat, poultry, and small game; fresh, chilled or frozen.....	867	100.0	-	-	.1	1.4	.9	1.9	-	1.8
208	Beverages and flavoring extracts.....	950	100.0	.9	.2	2.6	.4	.3	.2	-	.3
26	Pulp, paper, and allied products.....	1,383	100.0	1.3	.5	7.4	2.5	1.3	1.2	.3	-
28	Chemicals and allied products.....	540	100.0	.7	-	1.6	13.7	3.6	6.3	-	.1
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	206	100.0	.7	-	2.7	1.8	.4	.9	-	.2
285	Paints, varnishes, lacquers, enamels, and allied products.....	72	100.0	2.8	.1	3.1	3.8	2.2	.2	-	-
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	68	100.0	2.6	-	2.7	2.7	1.6	.2	-	-
30	Rubber and miscellaneous plastics products.....	104	100.0	3.4	-	.4	.6	4.2	1.2	.3	.1
33	Primary metal products.....	2,802	100.0	-	-	7.4	.9	.4	-	-	.4
332	Iron and steel castings.....	267	100.0	-	-	4.0	.3	.2	.1	.1	-
34	Fabricated metal products.....	518	100.0	.4	.2	.9	.6	1.4	.7	-	.3
349	Miscellaneous fabricated metal products.....	121	100.0	.4	.2	2.5	1.2	.5	.5	-	.2
35	Machinery, except electrical.....	749	100.0	1.4	.7	7.3	2.8	.8	.2	.1	.3
354	Metalworking machinery and equipment...	222	100.0	2.2	.4	14.9	8.0	.7	.2	-	.7
355	Special industry machinery (except metalworking machinery).....	75	100.0	4.4	4.2	.6	.5	1.7	.1	-	.2
359	Miscellaneous machinery and parts (except electrical).....	96	100.0	.9	.1	11.6	.4	.6	.1	.1	.2
36	Electrical machinery and equipment.....	430	100.0	3.9	.8	3.9	4.3	.3	.4	.1	3.0
367	Electronic components or accessories...	2	100.0	1.0	.1	.9	7.8	.3	.2	-	.2
37	Transportation equipment.....	1,625	100.0	1.0	.2	10.0	6.1	2.1	3.5	1.0	1.8
371	Motor vehicles and motor vehicle equipment.....	1,547	100.0	1.0	.1	10.5	6.5	2.2	3.7	.9	1.8
3714	Motor vehicle parts and accessories....	714	100.0	1.6	-	3.5	4.5	4.2	.9	1.9	-
38	Instruments, photographic goods, optical goods, watches, and clocks....	11	100.0	3.9	.4	4.5	1.2	3.0	2.6	.1	.5
382	Measuring, controlling, and indicating instruments.....	4	100.0	3.4	-	4.8	1.7	1.9	5.8	-	1.3

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14 ²	15	16	17	18
	Total.....	0.4	0.9	3.8	1.8	6.8	11.8	5.4	0.5	0.9	1.2
20	Food and kindred products.....	.8	1.0	3.4	1.0	2.5	19.9	3.9	.2	.3	1.5
201	Meat, poultry, and small game; fresh, chilled or frozen.....	-	-	4.9	-	3.8	20.5	3.7	-	.2	2.9
208	Beverages and flavoring extracts.....	1.8	1.8	2.0	1.7	1.6	25.9	2.4	.5	.4	.1
26	Pulp, paper, and allied products.....	.1	1.9	4.3	.8	2.6	10.5	10.6	.9	4.6	2.2
28	Chemicals and allied products.....	.4	3.6	5.1	6.5	3.0	3.8	7.6	.6	.3	.9
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	-	6.3	8.6	10.0	6.0	2.6	5.3	1.0	.2	1.6
285	Paints, varnishes, lacquers, enamels, and allied products.....	.8	.6	5.6	1.7	3.7	6.3	16.0	1.4	1.3	1.2
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	.9	.6	5.7	1.8	3.9	6.5	16.6	1.4	1.4	.8
30	Rubber and miscellaneous plastics products.....	.1	4.5	1.7	.1	1.6	3.6	3.5	.9	5.5	1.5
33	Primary metal products.....	.1	-	6.8	1.1	9.7	18.1	9.3	1.0	.4	.9
332	Iron and steel castings.....	1.0	.1	7.5	.2	6.4	22.1	6.5	.1	3.9	.9
34	Fabricated metal products.....	.1	.4	1.1	.2	6.6	10.4	5.0	.3	.1	1.5
349	Miscellaneous fabricated metal products.....	.1	1.1	1.1	.3	11.7	21.7	18.0	.7	-	.4
35	Machinery, except electrical.....	1.1	.9	1.6	1.1	3.4	2.4	1.7	.4	.2	.9
354	Metalworking machinery and equipment..	3.6	1.3	.8	1.5	5.3	.8	3.8	.1	.6	1.1
355	Special industry machinery (except metalworking machinery).....	-	.3	.9	-	3.0	9.8	.4	.1	.1	4.0
359	Miscellaneous machinery and parts (except electrical).....	-	.3	1.5	4.0	5.7	7.3	1.2	-	-	-
36	Electrical machinery and equipment....	1.7	1.7	1.5	1.0	6.3	1.2	4.0	.2	1.8	.1
367	Electronic components or accessories..	-	.9	.8	.2	2.4	29.9	20.3	.1	-	.1
37	Transportation equipment.....	.5	.8	2.9	.4	16.4	2.3	1.6	.1	.3	2.0
371	Motor vehicles and motor vehicle equipment.....	.2	.8	3.0	.4	17.1	2.3	1.5	.1	.3	1.9
3714	Motor vehicle parts and accessories...	.1	.3	5.5	.1	34.9	3.7	.9	-	.3	2.7
38	Instruments, photographic goods, optical goods, watches, and clocks...	1.4	1.6	.3	1.0	2.5	.7	6.4	1.7	.3	1.3
382	Measuring, controlling, and indicating instruments.....	.1	2.3	.6	1.3	4.4	1.8	15.0	3.0	.7	3.3

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									Sampling variability code ³
		19	20	21	22	23	24	25	30	50	
	Total.....	1.6	0.9	0.2	0.2	0.2	0.8	1.0	24.7	25.4	
20	Food and kindred products.....	4.3	.5	.1	.1	.2	.5	1.1	26.0	26.8	c
201	Meat, poultry, and small game; fresh, chilled or frozen.....	.2	.2	-	-	-	-	-	24.5	33.0	d
208	Beverages and flavoring extracts.....	-	.6	.3	.2	.4	.7	2.6	23.4	28.7	d
26	Pulp, paper, and allied products.....	1.2	.2	.1	.5	-	1.8	1.8	21.7	19.7	d
28	Chemicals and allied products.....	.6	.6	.5	-	-	.8	1.5	26.7	11.5	c
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	.3	.2	-	-	-	1.8	3.4	29.2	16.8	a
285	Paints, varnishes, lacquers, enamels, and allied products.....	.4	4.0	1.9	.2	-	.4	1.3	24.4	16.6	b
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	.5	4.2	2.1	.2	-	.4	1.2	25.0	17.0	b
30	Rubber and miscellaneous plastics products.....	5.2	.5	1.7	-	.1	.7	.4	35.6	22.6	d
33	Primary metal products.....	.3	1.0	.1	-	-	-	-	14.5	27.6	c
332	Iron and steel castings.....	-	-	-	-	-	-	.1	13.7	32.8	e
34	Fabricated metal products.....	.2	.4	.1	.1	-	.7	1.7	26.2	40.4	d
349	Miscellaneous fabricated metal products.....	.4	.1	.4	-	-	.1	1.7	28.9	7.8	e
35	Machinery, except electrical.....	1.0	2.2	.4	.3	.3	.5	.6	18.7	48.7	c
354	Metalworking machinery and equipment..	-	6.1	.4	.4	-	-	.9	15.2	31.0	e
355	Special industry machinery (except metalworking machinery).....	-	2.4	-	.1	.3	.1	2.2	32.4	32.2	d
359	Miscellaneous machinery and parts (except electrical).....	.1	.2	.4	.1	-	.5	.3	41.2	23.2	d
36	Electrical machinery and equipment....	2.0	3.5	1.8	-	1.3	3.6	2.8	31.2	17.6	c
367	Electronic components or accessories..	.1	.1	-	.1	-	.4	3.3	18.1	12.7	e
37	Transportation equipment.....	3.1	1.6	.1	.5	.2	2.2	2.3	23.5	13.5	c
371	Motor vehicles and motor vehicle equipment.....	3.2	1.2	.1	.6	.2	2.3	2.3	23.1	12.7	c
3714	Motor vehicle parts and accessories...	3.2	1.3	-	-	-	3.1	3.7	16.4	7.2	c
38	Instruments, photographic goods, optical goods, watches, and clocks...	.2	.4	3.6	1.9	.7	7.9	6.4	28.3	17.2	e
382	Measuring, controlling, and indicating instruments.....	.4	1.0	.6	2.4	.2	1.4	11.2	18.6	12.8	e

¹See description of production areas on page 313.²Includes only those shipments that originated in one city in this area and terminated in another city in this area.³Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 5. Ton-Miles of Shipments—Production Area Destination and Commodity: 1963

TCC code	Commodity	Ton-miles (millions)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5	6	7	8
	Total.....	3,913	100.0	1.5	0.4	8.3	4.1	1.6	1.6	0.2	0.8
20	Food and kindred products.....	539	100.0	1.4	.4	3.2	1.6	1.1	2.8	-	1.5
201	Meat, poultry, and small game; fresh, chilled or frozen.....	131	100.0	-	-	.5	5.0	3.0	5.2	-	5.3
208	Beverages and flavoring extracts.....	293	100.0	2.2	.4	4.9	.7	.4	.2	-	.4
26	Pulp, paper, and allied products.....	587	100.0	2.2	.7	9.8	3.4	1.4	1.1	.3	-
28	Chemicals and allied products.....	211	100.0	1.3	-	2.3	19.7	4.4	6.8	-	.1
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	86	100.0	1.3	-	3.7	2.4	.4	.9	-	.2
285	Paints, varnishes, lacquers, enamels, and allied products.....	30	100.0	4.7	.1	4.1	5.0	2.6	.2	-	-
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	28	100.0	4.6	-	3.7	3.7	2.0	.2	-	-
30	Rubber and miscellaneous plastics products.....	56	100.0	4.4	-	.4	.6	3.8	.9	.3	-
33	Primary metal products.....	679	100.0	-	-	16.7	2.0	.9	-	-	.6
332	Iron and steel castings.....	140	100.0	-	-	4.2	.3	.2	-	.1	-
34	Fabricated metal products.....	146	100.0	1.0	.4	1.7	1.1	2.4	1.1	-	.4
349	Miscellaneous fabricated metal products.....	34	100.0	1.0	.4	5.1	2.4	.9	.7	.1	.3
35	Machinery, except electrical.....	291	100.0	2.5	1.2	10.4	4.0	1.0	.2	.1	.3
354	Metalworking machinery and equipment.....	125	100.0	2.7	.5	14.6	7.9	.6	.2	-	.5
355	Special industry machinery (except metalworking machinery).....	31	100.0	7.6	6.0	.8	.6	2.0	-	-	.1
359	Miscellaneous machinery and parts (except electrical).....	47	100.0	1.3	.2	13.1	.4	.6	-	.1	.1
36	Electrical machinery and equipment....	271	100.0	4.3	.8	3.4	3.7	.3	.2	.1	1.9
367	Electronic components or accessories..	(Z)	100.0	2.4	.2	1.8	14.8	.4	.2	-	.4
37	Transportation equipment.....	834	100.0	1.4	.2	10.3	6.4	1.9	2.7	.9	1.4
371	Motor vehicles and motor vehicle equipment.....	793	100.0	1.4	.1	10.8	6.7	2.0	2.8	.8	1.4
3714	Motor vehicle parts and accessories...	309	100.0	2.7	-	4.6	5.6	4.6	.9	2.0	-
38	Instruments, photographic goods, optical goods, watches, and clocks...	9	100.0	3.4	.3	3.0	.7	1.8	1.2	-	.2
382	Measuring, controlling, and indicating instruments.....	3	100.0	3.4	-	3.8	1.3	1.4	3.3	-	.8

See footnotes at end of table.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14 ²	15	16	17	18
	Total.....	0.7	1.1	2.4	1.3	4.4	1.0	3.9	0.4	1.6	1.1
20	Food and kindred products.....	1.9	1.7	2.9	1.1	2.0	2.4	3.8	.3	.7	1.8
201	Meat, poultry, and small game; fresh, chilled or frozen.....	-	-	6.4	-	4.6	3.5	5.9	-	1.0	5.9
208	Beverages and flavoring extracts.....	3.5	2.4	1.6	1.5	1.3	2.7	1.9	.5	.9	.1
26	Pulp, paper, and allied products.....	.1	1.8	2.3	.5	1.4	.8	6.1	.7	6.4	1.6
28	Chemicals and allied products.....	.6	3.6	2.9	4.2	1.7	.3	4.9	.5	.5	.7
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	-	5.9	4.7	6.1	3.3	.2	3.2	.8	.3	1.2
285	Paints, varnishes, lacquers, enamels, and allied products.....	1.1	.6	2.7	.9	1.7	.7	9.5	1.1	1.8	.9
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	1.2	.6	2.8	1.0	1.8	.8	10.1	1.1	1.9	.6
30	Rubber and miscellaneous plastics products.....	.1	3.2	.6	-	.7	.2	1.5	.5	5.9	.9
33	Primary metal products.....	.2	-	5.7	1.1	8.2	2.2	8.4	1.2	.9	1.2
332	Iron and steel castings.....	.9	-	2.3	.1	2.4	1.3	2.9	-	4.3	.6
34	Fabricated metal products.....	.1	.6	.9	.1	5.1	1.0	4.2	.4	.1	1.6
349	Miscellaneous fabricated metal products.....	.1	1.6	.9	.2	8.7	2.1	15.1	.7	.1	.4
35	Machinery, except electrical.....	1.5	.9	.9	.7	1.9	.2	1.0	.3	.4	.8
354	Metalworking machinery and equipment..	3.3	.9	.3	.6	2.0	.1	1.5	-	.7	.6
355	Special industry machinery (except metalworking machinery).....	-	.3	.4	-	1.6	.7	.2	.1	.1	3.2
359	Miscellaneous machinery and parts (except electrical).....	-	.3	.6	1.9	2.6	.4	.6	-	-	-
36	Electrical machinery and equipment....	1.5	1.1	.4	.4	2.0	.1	1.5	.1	1.7	.1
367	Electronic components or accessories..	-	1.3	.4	-	2.0	5.5	17.5	-	-	.2
37	Transportation equipment.....	.5	.6	1.1	.2	6.7	.2	.8	-	.3	1.2
371	Motor vehicles and motor vehicle equipment.....	.2	.6	1.1	.2	7.0	.2	.7	-	.3	1.1
3714	Motor vehicle parts and accessories..	.1	.2	2.3	-	17.2	.2	.5	-	.3	1.9
38	Instruments, photographic goods, optical goods, watches, and clocks..	.9	.7	.1	.3	.6	-	1.9	.6	.2	.5
382	Measuring, controlling, and indicating instruments.....	.1	1.2	.1	.4	1.4	.1	5.4	1.3	.7	1.7

See footnotes at end of table.

TABLE 5. Ton-Miles of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued								
		19	20	21	22	23	24	25	30	50
	Total.....	1.9	2.3	0.6	0.6	1.0	5.2	5.9	25.5	20.6
20	Food and kindred products.....	6.3	1.7	.5	.4	1.2	3.7	8.5	27.0	20.1
201	Meat, poultry, and small game; fresh, chilled or frozen.....	.4	1.0	-	-	-	-	-	22.0	30.3
208	Beverages and flavoring extracts.....	-	1.7	.8	.8	2.3	4.9	15.6	27.3	21.0
26	Pulp, paper, and allied products.....	1.1	.3	.3	1.1	.1	8.5	7.8	24.1	16.1
28	Chemicals and allied products.....	.5	1.3	1.1	.1	-	4.1	7.3	22.3	8.8
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	.2	.4	-	.1	-	8.5	15.1	31.2	9.9
285	Paints, varnishes, lacquers, enamels, and allied products.....	.4	7.6	4.1	.6	-	1.8	5.8	23.3	18.7
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	.4	8.2	4.4	.6	-	1.9	5.3	23.9	19.2
30	Rubber and miscellaneous plastics products.....	4.0	.7	3.0	-	.2	2.5	1.6	41.3	22.7
33	Primary metal products.....	.5	3.3	.4	-	-	-	.1	14.3	32.1
332	Iron and steel castings.....	-	-	-	-	-	-	.3	19.0	61.1
34	Fabricated metal products.....	.3	1.2	.4	.3	-	5.3	11.1	32.3	26.9
349	Miscellaneous fabricated metal products.....	.6	.3	1.4	.1	-	1.0	11.1	30.2	14.5
35	Machinery, except electrical.....	1.1	4.6	.9	1.0	1.7	2.4	2.9	30.9	26.2
354	Metalworking machinery and equipment.....	-	8.8	.6	.7	-	.1	3.0	24.3	25.5
355	Special industry machinery (except metalworking machinery).....	-	4.9	-	.4	1.6	.5	10.0	35.3	23.6
359	Miscellaneous machinery and parts (except electrical).....	.1	.3	.7	.1	.1	1.9	1.0	50.9	22.7
36	Electrical machinery and equipment....	1.3	4.8	2.6	.1	4.2	11.6	8.3	31.1	12.4
367	Electronic components or accessories..	.2	.2	-	.7	-	3.3	21.8	10.4	16.3
37	Transportation equipment.....	2.4	2.7	.2	1.1	.8	8.9	8.4	26.9	11.8
371	Motor vehicles and motor vehicle equipment.....	2.4	2.0	.2	1.2	.8	9.3	8.7	27.1	10.9
3714	Motor vehicle parts and accessories...	3.0	2.6	-	-	-	14.4	16.4	12.2	8.3
38	Instruments, photographic goods, optical goods, watches, and clocks....	.1	.4	3.9	2.5	1.6	19.8	14.7	24.1	16.5
382	Measuring, controlling, and indicating instruments.....	.3	1.3	.7	4.1	.6	4.2	32.0	17.2	13.2

Z Less than 500,000 ton-miles.

¹See description of production areas on page 313.²Includes only those shipments that originated in one city in this area and terminated in another city in this area.

Production Area 15

Production Area 15 consists of two standard metropolitan statistical areas: Chicago, Ill., and Gary-Hammond-East Chicago, Ind.

Data are based on 529 plants from which 62,514 shipping documents were sampled. The sampling variability on the estimated 70.3 million tons shipped from Production Area 15 is ± 13.5 percent.

Major commodity groups shipped from Production Area 15 and their area of destinations are summarized in table A below.

Table A.—DISTRIBUTION OF TONS OF COMMODITIES SHIPPED FROM PRODUCTION AREA 15,
BY AREA OF DESTINATION

TCC code	Commodity class	Total tons (thousands)	Percent distribution by destination area			
			Production Area 15 ¹	Other produc- tion areas	Other SMSA's	Balance of country
--	Total.....	² 70,281	30.3	30.4	19.7	19.6
20	Food and kindred products.....	7,434	28.4	30.2	25.8	15.6
23	Apparel, including knit apparel, and other finished textile products.....	24	6.2	31.3	22.3	40.2
25	Furniture and fixtures.....	838	7.8	43.0	39.0	10.2
26	Pulp, paper, and allied products.....	1,250	40.1	16.3	12.5	31.1
28	Chemicals and allied products.....	8,930	13.5	32.0	23.3	31.2
29	Petroleum and coal products.....	9,866	26.9	41.8	18.3	13.0
30	Rubber and miscellaneous plastics products....	1,367	6.8	48.1	31.4	13.7
32	Stone, clay, and glass products.....	7,423	56.5	9.4	9.5	24.6
33	Primary metal products.....	22,333	34.6	28.9	19.4	17.1
34	Fabricated metal products.....	4,113	16.4	36.2	29.1	18.3
35	Machinery, except electrical.....	1,658	16.8	41.1	18.6	23.5
36	Electrical machinery and equipment.....	797	8.7	49.9	29.9	11.5
37	Transportation equipment.....	1,438	6.8	48.5	20.6	24.1
38	Instruments, photographic goods, optical goods, watches, and clocks.....	146	19.5	36.9	27.9	15.7
39	Miscellaneous products of manufacturing.....	88	6.3	62.2	17.7	13.8

¹Includes only those shipments that originated in one city in this area and terminated in another city in this area.

²Includes commodity classes not shown separately.

TABLE 1. Tons of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by means of transport								Sampling variability code ¹
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown	
	Total.....	70,281	100.0	35.4	44.5	9.2	-	10.1	0.7	0.1	
20	Food and kindred products.....	7,434	100.0	39.0	33.7	26.3	-	.1	.8	.1	c
201	Meat, poultry, and small game; fresh, chilled or frozen.....	380	100.0	47.7	48.6	3.0	-	-	-	.7	e
204	Grain mill products.....	1,831	100.0	83.0	13.8	3.0	-	-	.2	-	b
207	Confectionery and related products..	822	100.0	35.3	58.5	2.7	-	-	3.4	.1	b
20711	Candy (bars, bulk, packaged).....	640	100.0	41.8	53.4	3.4	-	-	1.3	.1	b
209	Miscellaneous food preparations and kindred products.....	1,800	100.0	34.3	63.0	2.3	-	-	.3	.1	d
23	Apparel, including knit apparel, and other finished textile products....	24	100.0	3.3	40.9	.9	0.9	0.2	53.7	.1	d
25	Furniture and fixtures.....	838	100.0	38.6	49.9	8.7	-	-	2.8	-	e
251	Household and office furniture.....	301	100.0	33.2	38.0	21.3	.1	-	7.4	-	d
26	Pulp, paper, and allied products.....	1,250	100.0	11.9	70.6	17.0	-	-	.5	-	c
265	Containers, boxes, and related products, paperboard, fiberboard, and pulpboard.....	988	100.0	8.4	69.8	21.4	-	-	.4	-	c
26511	Containers and boxes, paperboard, fiberboard, and pulpboard.....	875	100.0	9.4	66.1	24.1	-	-	.4	-	d
28	Chemicals and allied products.....	8,930	100.0	18.7	56.5	12.2	-	12.3	.2	.1	c
281	Industrial chemicals.....	2,697	100.0	39.4	26.4	34.1	-	-	.1	-	c
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	1,212	100.0	20.4	77.4	1.9	-	-	.3	-	b
2841	Soap and other detergents (except specialty cleansers).....	880	100.0	24.0	74.6	1.0	-	-	.4	-	b
285	Paints, varnishes, lacquers, enamels, and allied products.....	893	100.0	7.2	89.9	2.8	-	-	.1	-	d
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	826	100.0	7.6	91.4	.9	-	-	.1	-	e
29	Petroleum and coal products.....	9,866	100.0	12.7	26.2	13.6	-	47.4	.1	-	a
291	Products of petroleum refining.....	8,900	100.0	10.8	23.3	13.6	-	52.3	-	-	a
295	Paving and roofing materials.....	847	100.0	25.3	58.7	15.5	-	-	.5	-	c
30	Rubber and miscellaneous plastics products.....	1,367	100.0	1.1	91.9	5.5	-	-	1.5	-	e
306	Miscellaneous fabricated rubber products.....	81	100.0	1.9	97.2	-	.2	-	.7	-	e
32	Stone, clay, and glass products.....	7,423	100.0	26.7	73.0	.1	-	-	.2	-	e
329	Abrasives, asbestos, and miscellaneous nonmetallic mineral products.	1,266	100.0	50.5	48.4	.5	-	-	.6	-	d
33	Primary metal products.....	22,333	100.0	47.4	43.2	4.3	-	5.0	.1	-	b
331	Steel works and rolling mill products.....	21,125	100.0	48.5	41.9	4.2	-	5.3	.1	-	b
3312	Primary iron and steel products (except coke-oven products).....	19,318	100.0	48.6	42.7	3.3	-	5.3	.1	-	b
33123	Sheet and strip, iron and steel (except tin mill products).....	5,552	100.0	38.9	56.4	2.2	-	2.5	-	-	a
33124	Bars, bar shapes, and rods.....	8,514	100.0	44.4	41.8	5.6	-	8.2	-	-	d
335	Nonferrous metal basic shapes.....	467	100.0	47.8	45.8	6.1	-	-	.3	-	c
336	Nonferrous and nonferrous base alloy castings.....	65	100.0	.3	94.4	4.1	.3	-	.9	-	d
3361	Aluminum and aluminum base alloy castings.....	34	100.0	.4	95.9	2.1	.1	-	1.5	-	e
339	Miscellaneous primary metal products	314	100.0	18.4	78.5	1.7	-	-	1.4	-	b
3391	Iron and steel forgings.....	217	100.0	16.3	79.6	2.0	-	-	2.1	-	a

See footnote at end of table.

TABLE 1. Tons of Shipments—Means of Transport and Commodity: 1963—Continued

TCC code	Commodity	Tons (thous.)	Percent distribution by means of transport								Sampling variability code ¹
			All means of transport	Rail	Motor carrier	Pri- vate truck	Air	Water	Other	Un- known	
34	Fabricated metal products.....	4,113	100.0	51.8	32.4	10.1	0.1	4.1	1.3	0.2	c
342	Cutlery, hand tools, and general hardware.....	136	100.0	15.6	52.9	5.6	.5	1.4	20.9	3.1	d
3429	Miscellaneous hardware.....	29	100.0	2.8	59.6	20.3	.5	6.5	10.0	.3	d
344	Structural and miscellaneous metal products.....	2,032	100.0	67.5	19.4	4.6	-	8.2	.3	-	b
3441	Structural metal products.....	1,910	100.0	70.0	17.6	3.7	-	8.7	-	-	b
346	Metal stampings.....	312	100.0	23.6	59.7	15.5	.2	-	1.0	-	c
349	Miscellaneous fabricated metal products.....	410	100.0	21.8	44.1	32.0	-	-	2.1	-	d
3494	Valves and pipe fittings (except plumbers' brass goods and fittings)	125	100.0	24.6	67.5	1.7	.1	-	6.0	.1	d
35	Machinery, except electrical.....	1,658	100.0	34.9	52.9	7.1	.3	.3	2.3	2.2	b
353	Construction, mining, and materials handling machinery and equipment...	402	100.0	39.4	57.9	2.1	.3	-	.3	-	b
3531	Construction machinery and equipment	277	100.0	46.3	50.9	2.5	.3	-	-	-	b
354	Metalworking machinery and equipment	374	100.0	75.3	17.7	3.6	-	-	2.9	.5	c
3548	Metalworking machinery (except machine tools).....	72	100.0	26.7	46.7	10.1	.1	-	14.4	2.0	d
35482	Power driven hand tools, parts, and accessories.....	44	100.0	-	64.3	9.4	.1	-	23.8	2.4	e
355	Special industry machinery (except metalworking machinery).....	26	100.0	21.2	64.1	7.5	1.0	.8	4.8	.6	c
356	General industrial machinery and equipment.....	200	100.0	25.4	34.4	19.4	.4	-	3.6	16.8	c
3561	Pumps, air and gas compressors, and measuring and dispensing pumps, also pumping equipment.....	33	100.0	7.8	80.1	9.1	.6	-	2.3	.1	d
3566	Mechanical power transmission equipment, except ball and roller bearings.....	139	100.0	33.5	17.7	24.2	.1	-	.5	24.0	d
358	Service industry machines.....	149	100.0	.6	93.2	4.6	-	-	1.6	-	e
359	Miscellaneous machinery and parts (except electrical).....	173	100.0	28.1	58.9	5.1	1.3	.4	6.1	.1	b
35999	Machinery and parts, n.e.c. (except electrical).....	171	100.0	28.3	58.8	5.1	1.3	.5	5.9	.1	b
36	Electrical machinery and equipment..	797	100.0	22.3	53.4	7.5	.6	.2	15.7	.3	a
361	Electrical transmission and distribution equipment.....	99	100.0	6.7	68.5	19.7	1.0	-	4.1	-	d
3612	Power, distribution, and specialty transformers.....	62	100.0	7.7	58.3	31.5	1.2	-	1.2	.1	d
362	Electrical industrial apparatus.....	17	100.0	.6	89.2	1.6	2.3	-	6.3	-	c
363	Household appliances.....	170	100.0	55.9	33.1	1.7	-	.3	8.9	.1	a
3634	Electric housewares and fans.....	37	100.0	-	65.1	4.3	.2	-	30.1	.3	c
364	Electric lighting and wiring equipment.....	119	100.0	2.2	89.7	3.8	.5	.1	3.7	-	d
3642	Lighting fixtures.....	76	100.0	1.2	90.7	4.7	.1	-	3.3	-	e
3643	Current carrying wiring devices (including lightning rods).....	10	100.0	3.1	81.7	5.2	3.3	-	6.7	-	e
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records.....	293	100.0	20.5	44.6	3.1	.1	.3	31.0	.4	a
36511	Household and automotive radios, radio-phonograph combinations and phonographs.....	165	100.0	23.1	43.7	2.2	.1	.5	30.1	.3	a

See footnote at end of table.

TABLE 1. Tons of Shipments—Means of Transport and Commodity: 1963—Continued

TCC code	Commodity	Tons (thous.)	Percent distribution by means of transport								Sampling variability code ¹
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown	
366	Communication equipment.....	47	100.0	26.9	52.9	0.2	4.2	-	15.8	-	b
3661	Telephone and telegraph equipment...	42	100.0	30.2	49.0	-	4.6	-	16.2	-	c
367	Electronic components or accessories	31	100.0	1.3	18.6	75.5	.7	0.8	3.1	-	b
3679	Miscellaneous electronic components and accessories.....	11	100.0	3.5	50.4	34.4	1.9	2.4	7.4	-	d
369	Miscellaneous electrical machinery, equipment, and supplies.....	18	100.0	.5	86.1	.2	.7	-	8.1	4.4	e
37	Transportation equipment.....	1,438	100.0	65.5	32.3	1.6	.2	-	.4	-	b
371	Motor vehicles and motor vehicle equipment.....	1,240	100.0	64.3	33.6	1.6	.2	-	.3	-	c
3714	Motor vehicle parts and accessories.	363	100.0	54.5	44.1	.9	.1	-	.4	-	d
37141	Motor vehicle parts (except gear frames and internal combustion engines).....	333	100.0	54.1	44.6	.9	.1	-	.3	-	d
38	Instruments, photographic goods, optical goods, watches, and clocks.	146	100.0	4.6	70.0	16.2	.3	.1	8.3	.5	b
381	Engineering, laboratory, and scientific instruments.....	9	100.0	28.5	56.1	2.0	3.0	.4	9.9	.1	d
382	Measuring, controlling, and indicating instruments.....	8	100.0	3.1	76.3	1.2	1.0	-	18.2	.2	c
3821	Mechanical measuring and controlling instruments (except automatic temperature controls).....	7	100.0	3.6	78.5	.6	.8	-	16.4	.1	c
384	Surgical, medical, and dental instruments and supplies.....	61	100.0	1.3	91.2	6.1	.1	-	.6	.7	d
386	Photographic equipment and supplies.	59	100.0	5.0	49.0	33.2	.1	.1	12.2	.4	c
39	Miscellaneous products of manufacturing.....	88	100.0	.3	82.1	2.1	.7	-	14.6	.2	d
399	Miscellaneous manufactured products.	72	100.0	.2	88.4	2.0	.3	-	9.1	-	d
3999	Manufactured products, n.e.c.....	64	100.0	.2	87.0	2.2	.3	-	10.3	-	d

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 2. Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Ton-miles (millions)	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
	Total.....	18,491	100.0	45.1	39.7	3.4	0.1	9.5	2.0	0.2
20	Food and kindred products.....	2,892	100.0	65.9	29.7	2.5	-	-	1.9	-
201	Meat, poultry, and small game; fresh, chilled or frozen.....	138	100.0	26.3	70.2	1.4	-	-	-	2.1
204	Grain mill products.....	887	100.0	92.4	6.5	1.0	-	-	.1	-
207	Confectionery and related products.....	724	100.0	61.8	34.5	1.1	-	-	2.5	.1
20711	Candy (bars, bulk, packaged).....	635	100.0	68.6	28.6	1.2	-	-	1.5	.1
209	Miscellaneous food preparations and kindred products.....	747	100.0	57.2	41.7	.7	-	-	.4	-
23	Apparel, including knit apparel, and other finished textile products.....	14	100.0	7.2	38.3	-	2.2	.2	51.8	.3
25	Furniture and fixtures.....	581	100.0	56.7	36.6	3.6	.1	-	3.0	-
251	Household and office furniture.....	128	100.0	40.6	41.8	4.0	.1	.2	13.3	-
26	Pulp, paper, and allied products.....	231	100.0	20.5	70.6	6.2	.1	-	2.6	-
265	Containers, boxes, and related products, paperboard, fiberboard, and pulpboard....	168	100.0	20.0	69.3	8.5	.1	-	2.1	-
26511	Containers and boxes, paperboard, fiberboard, and pulpboard.....	148	100.0	22.8	65.2	9.7	.1	-	2.2	-
28	Chemicals and allied products.....	2,912	100.0	26.0	55.6	4.8	-	13.1	.4	.1
281	Industrial chemicals.....	697	100.0	62.9	19.9	16.8	-	-	.1	.3
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	532	100.0	30.6	67.1	1.7	-	-	.6	-
2841	Soap and other detergents (except specialty cleansers).....	344	100.0	40.2	59.0	.2	-	-	.6	-
285	Paints, varnishes, lacquers, enamels, and allied products.....	379	100.0	12.6	85.8	1.4	-	-	.2	-
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	346	100.0	13.5	86.3	.1	-	-	.1	-
29	Petroleum and coal products.....	1,302	100.0	26.4	18.9	9.3	-	45.3	.1	-
291	Products of petroleum refining.....	1,023	100.0	19.5	14.4	10.2	-	55.9	-	-
295	Paving and roofing materials.....	199	100.0	44.7	45.9	8.6	-	-	.8	-
30	Rubber and miscellaneous plastics products	617	100.0	1.7	89.6	4.8	-	-	3.9	-
306	Miscellaneous fabricated rubber products..	27	100.0	3.1	95.0	-	.3	-	1.6	-
32	Stone, clay, and glass products.....	1,161	100.0	30.9	67.6	.1	-	-	1.3	.1
329	Abrasives, asbestos, and miscellaneous nonmetallic mineral products.....	270	100.0	9.6	85.6	.5	-	-	4.3	-
33	Primary metal products.....	4,757	100.0	52.5	31.8	1.6	-	13.8	.3	-
331	Steel works and rolling mill products....	4,333	100.0	52.6	30.4	1.6	-	15.2	.2	-
3312	Primary iron and steel products (except coke-oven products).....	3,928	100.0	51.2	32.4	1.6	-	14.6	.2	-
33123	Sheet and strip, iron and steel (except tin mill products).....	884	100.0	51.4	40.6	3.5	-	4.5	-	-
33124	Bars, bar shapes, and rods.....	2,007	100.0	40.4	35.1	1.3	-	23.2	-	-
335	Nonferrous metal basic shapes.....	258	100.0	71.1	25.9	2.4	-	-	.6	-
336	Nonferrous and nonferrous base alloy castings.....	13	100.0	1.0	95.9	.4	1.1	-	1.6	-
3361	Aluminum and aluminum base alloy castings.	7	100.0	1.7	94.7	.2	.7	-	2.7	-
339	Miscellaneous primary metal products.....	75	100.0	21.0	75.0	.7	.1	-	3.2	-
3391	Iron and steel forgings.....	47	100.0	19.0	74.9	.9	.1	-	5.1	-

TABLE 2. Ton-Miles of Shipments—Means of Transport and Commodity: 1963—Continued

TCC code	Commodity	Ton-miles (millions)	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Un-known
34	Fabricated metal products.....	1,637	100.0	60.1	25.6	3.9	0.1	7.0	3.2	0.1
342	Cutlery, hand tools, and general hardware.	107	100.0	31.3	34.6	.2	.4	.8	31.0	1.7
3429	Miscellaneous hardware.....	13	100.0	7.3	72.8	1.2	1.0	6.6	11.1	-
344	Structural and miscellaneous metal products.....	838	100.0	74.2	11.1	.9	-	13.5	.3	-
3441	Structural metal products.....	786	100.0	77.7	7.5	.4	-	14.4	-	-
346	Metal stampings.....	164	100.0	34.1	52.1	11.5	.3	-	1.9	.1
349	Miscellaneous fabricated metal products...	161	100.0	32.3	47.3	14.0	.1	-	6.3	-
3494	Valves and pipe fittings (except plumbers' brass goods and fittings).....	74	100.0	34.7	51.7	.1	.1	-	13.4	-
35	Machinery, except electrical.....	742	100.0	38.5	48.5	5.1	.5	.9	4.0	2.5
353	Construction, mining, and materials handling machinery and equipment.....	272	100.0	51.6	46.8	.6	.3	-	.7	-
3531	Construction machinery and equipment.....	182	100.0	58.3	40.6	.8	.3	-	-	-
354	Metalworking machinery and equipment.....	112	100.0	64.2	25.7	3.2	.1	-	5.7	1.1
3548	Metalworking machinery (except machine tools).....	51	100.0	42.4	38.0	5.5	.1	-	12.1	1.9
35482	Power driven hand tools, parts, and accessories.....	28	100.0	-	67.2	9.5	.1	-	21.8	1.4
355	Special industry machinery (except metalworking machinery).....	14	100.0	36.1	52.1	.3	1.2	1.0	9.3	-
356	General industrial machinery and equipment	95	100.0	25.1	35.3	15.4	.5	-	5.3	18.4
3561	Pumps, air and gas compressors, and measuring and dispensing pumps, also pumping equipment.....	17	100.0	21.4	72.4	1.0	1.0	-	4.2	-
3566	Mechanical power transmission equipment, except ball and roller bearings.....	62	100.0	28.9	18.9	23.3	.2	-	.5	28.2
358	Service industry machines.....	62	100.0	1.0	95.5	.8	-	.1	2.6	-
359	Miscellaneous machinery and parts (except electrical).....	61	100.0	29.2	52.0	3.4	2.2	1.2	11.9	.1
35999	Machinery and parts, n.e.c. (except electrical).....	60	100.0	29.4	51.8	3.4	2.3	1.2	11.8	.1
36	Electrical machinery and equipment.....	502	100.0	32.0	41.5	4.2	.9	.3	20.8	.3
361	Electrical transmission and distribution equipment.....	53	100.0	8.9	56.2	27.4	1.5	-	5.9	.1
3612	Power, distribution, and specialty transformers.....	34	100.0	8.2	45.7	42.8	1.8	-	1.4	.1
362	Electrical industrial apparatus.....	6	100.0	.9	84.4	.4	7.0	-	7.2	.1
363	Household appliances.....	126	100.0	62.0	24.8	.2	-	.7	12.3	-
3634	Electric housewares and fans.....	30	100.0	-	61.3	.1	.1	-	38.5	-
364	Electric lighting and wiring equipment...	60	100.0	2.7	89.0	2.2	.9	.1	5.1	-
3642	Lighting fixtures.....	34	100.0	1.2	90.6	3.8	.2	-	4.2	-
3643	Current carrying wiring devices (including lightning rods).....	5	100.0	4.7	80.0	.2	6.0	-	9.0	.1
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records.....	200	100.0	33.3	30.1	.7	.1	.2	35.0	.6
36511	Household and automotive radios, radio-phonograph combinations and phonographs..	120	100.0	38.3	25.9	.7	.1	.3	34.4	.3
366	Communication equipment.....	36	100.0	26.1	37.9	.2	6.0	-	29.8	-
3661	Telephone and telegraph equipment.....	32	100.0	28.7	33.8	-	6.4	-	31.1	-
367	Electronic components or accessories.....	7	100.0	2.5	30.8	50.6	3.1	4.2	8.8	-
3679	Miscellaneous electronic components and accessories.....	3	100.0	5.2	61.2	1.9	6.6	9.5	15.6	-
369	Miscellaneous electrical machinery, equipment, and supplies.....	12	100.0	.7	88.1	-	1.1	-	6.8	3.3

TABLE 2. **Ton-Miles of Shipments—Means of Transport and Commodity: 1963**—Continued

TCC code	Commodity	Ton- miles (millions)	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Un- known
37	Transportation equipment.....	748	100.0	67.3	31.4	0.9	0.1	-	0.3	-
371	Motor vehicles and motor vehicle equipment	664	100.0	64.8	33.9	1.0	.1	-	.2	-
3714	Motor vehicle parts and accessories.....	270	100.0	34.3	64.7	.6	-	-	.4	-
37141	Motor vehicle parts (except gear frames and internal combustion engines).....	255	100.0	32.9	66.2	.6	-	-	.3	-
38	Instruments, photographic goods, optical goods, watches, and clocks.....	62	100.0	13.1	71.2	1.2	.6	0.1	13.1	0.7
381	Engineering, laboratory, and scientific instruments.....	7	100.0	51.4	37.3	-	2.8	.7	7.7	.1
382	Measuring, controlling, and indicating instruments.....	5	100.0	7.5	67.3	.6	1.2	-	23.2	.2
3821	Mechanical measuring and controlling instruments (except automatic temperature controls).....	4	100.0	8.8	70.1	.4	.9	-	19.6	.2
384	Surgical, medical, and dental instruments and supplies.....	23	100.0	1.5	93.6	2.1	.2	-	1.2	1.4
336	Photographic equipment and supplies.....	23	100.0	16.9	60.2	.9	.2	.1	21.3	.4
39	Miscellaneous products of manufacturing...	54	100.0	.2	80.0	.7	1.1	.1	17.6	.3
399	Miscellaneous manufactured products.....	43	100.0	.1	86.3	.8	.4	.1	12.3	-
3999	Manufactured products, n.e.c.....	41	100.0	.1	85.8	.8	.5	.1	12.7	-

TABLE 3. Tons of Shipments—Distance and Commodity:
1963

TCC code	Commodity	Tons (thous.)	Percent distribution by distance of shipment								Sampling variability code ¹
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over	
	Total.....	70,281	100.0	38.9	20.1	13.2	11.3	13.3	1.0	2.2	
20	Food and kindred products.....	7,434	100.0	33.4	14.1	8.5	13.0	23.6	1.9	5.5	c
201	Meat, poultry, and small game; fresh, chilled or frozen.....	380	100.0	35.1	8.1	10.6	5.8	37.8	2.6	-	e
204	Grain mill products.....	1,831	100.0	14.7	12.2	10.8	19.6	36.1	2.0	4.6	b
207	Confectionery and related products..	822	100.0	6.6	7.0	9.3	12.2	31.2	3.5	30.2	b
20711	Candy (bars, bulk, packaged).....	640	100.0	4.3	7.2	8.1	11.5	26.7	4.0	38.2	b
209	Miscellaneous food preparations and kindred products.....	1,800	100.0	8.9	27.7	12.3	18.2	28.6	2.4	1.9	d
23	Apparel, including knit apparel, and other finished textile products	24	100.0	8.9	12.8	14.4	18.2	32.5	3.3	9.9	d
25	Furniture and fixtures.....	838	100.0	10.9	7.8	10.0	23.6	27.5	.8	19.4	e
251	Household and office furniture.....	301	100.0	27.5	17.4	14.0	11.8	19.1	1.5	8.7	d
26	Pulp, paper, and allied products.....	1,250	100.0	52.6	21.7	8.1	6.5	8.5	1.0	1.6	c
265	Containers, boxes, and related products, paperboard, fiberboard, and pulpboard.....	988	100.0	52.0	23.0	8.7	6.4	8.6	.4	.9	c
26511	Containers and boxes, paperboard, fiberboard, and pulpboard.....	875	100.0	58.4	15.3	9.4	6.6	9.1	.3	.9	d
28	Chemicals and allied products.....	8,930	100.0	22.3	13.6	20.2	23.9	17.7	1.1	1.2	c
281	Industrial chemicals.....	2,697	100.0	36.6	16.3	18.8	14.2	12.0	.5	1.6	c
284	Soap and detergents, cleaning prepa- rations, perfumes, cosmetics, and other toilet preparations.....	1,212	100.0	13.9	14.1	19.9	15.3	29.3	5.4	2.1	b
2841	Soap and other detergents (except specialty cleansers).....	880	100.0	17.1	14.3	23.2	13.4	26.1	5.6	.3	b
285	Paints, varnishes, lacquers, enamels, and allied products.....	893	100.0	17.1	14.1	14.3	14.8	36.7	1.5	1.5	d
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	826	100.0	17.3	13.6	14.4	14.3	38.5	1.6	.3	e
29	Petroleum and coal products.....	9,866	100.0	34.4	49.0	9.2	4.1	3.1	.1	.1	a
291	Products of petroleum refining.....	8,900	100.0	35.4	52.5	7.4	3.0	1.6	-	.1	a
295	Paving and roofing materials.....	847	100.0	28.7	18.0	28.7	14.8	9.7	.1	-	c
30	Rubber and miscellaneous plastics products.....	1,367	100.0	13.0	7.4	21.7	19.0	34.9	1.6	2.4	e
306	Miscellaneous fabricated rubber products.....	81	100.0	21.9	27.6	14.1	12.4	20.6	.2	3.2	e
32	Stone, clay, and glass products.....	7,423	100.0	66.4	10.3	5.1	9.7	6.3	2.0	.2	e
329	Abrasives, asbestos, and miscella- neous nonmetallic mineral products.	1,266	100.0	60.6	2.9	11.9	7.5	15.7	.3	1.1	d
33	Primary metal products.....	22,333	100.0	45.6	19.7	15.2	8.3	9.6	.6	1.0	b
331	Steel works and rolling mill products.....	21,125	100.0	47.0	19.6	14.9	8.2	8.9	.6	.8	b
3312	Primary iron and steel products (except coke-oven products).....	19,318	100.0	46.3	20.6	15.3	8.3	8.1	.5	.9	b
33123	Sheet and strip, iron and steel (except tin mill products).....	5,552	100.0	48.1	25.3	14.4	7.4	3.6	.5	.7	a
33124	Bars, bar shapes, and rods.....	8,514	100.0	40.0	22.4	18.3	6.9	11.7	.3	.4	d
335	Nonferrous metal basic shapes.....	467	100.0	11.1	9.7	13.9	13.4	41.0	.7	10.2	c
336	Nonferrous and nonferrous base alloy castings.....	65	100.0	21.2	24.0	44.8	7.4	2.0	.2	.4	d
3361	Aluminum and aluminum base alloy castings.....	34	100.0	12.4	23.5	59.6	.8	3.1	.1	.5	e
339	Miscellaneous primary metal products	314	100.0	18.7	38.3	24.5	9.2	8.1	.2	1.0	b
3391	Iron and steel forgings.....	217	100.0	20.1	41.1	26.8	4.4	6.1	.4	1.1	a

See footnote at end of table.

TABLE 3. Tons of Shipments—Distance and Commodity:
1963—Continued

TCC code	Commodity	Tons (thous.)	Percent distribution by distance of shipment								Sampling variability code ¹
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over	
34	Fabricated metal products.....	4,113	100.0	23.9	12.6	17.6	16.3	23.9	1.1	4.6	c
342	Cutlery, hand tools, and general hardware.....	136	100.0	10.2	6.5	9.7	18.2	28.1	1.5	25.8	d
3429	Miscellaneous hardware.....	29	100.0	26.3	9.2	7.1	25.6	23.5	3.5	4.8	d
344	Structural and miscellaneous metal products.....	2,032	100.0	26.0	14.6	11.9	15.4	25.7	1.3	5.1	b
3441	Structural metal products.....	1,910	100.0	26.6	13.9	12.0	15.4	25.8	1.3	5.0	b
346	Metal stampings.....	312	100.0	11.9	16.3	12.8	8.3	42.4	2.0	6.3	c
349	Miscellaneous fabricated metal products.....	410	100.0	34.2	4.4	8.6	13.6	36.3	.5	2.4	d
3494	Valves and pipe fittings (except plumbers' brass goods and fittings)	125	100.0	17.8	5.9	8.2	7.3	52.7	1.5	6.6	d
35	Machinery, except electrical.....	1,658	100.0	22.6	10.2	19.1	11.2	28.8	3.1	5.0	b
353	Construction, mining, and materials handling machinery and equipment...	402	100.0	10.8	6.5	9.9	12.9	43.1	6.7	10.1	b
3531	Construction machinery and equipment	277	100.0	13.1	8.2	11.7	7.4	43.8	2.2	13.6	b
354	Metalworking machinery and equipment	374	100.0	36.4	7.9	27.8	6.9	16.4	1.2	3.4	c
3548	Metalworking machinery (except machine tools).....	72	100.0	15.8	2.7	7.4	14.7	37.3	5.8	16.3	d
35482	Power driven hand tools, parts, and accessories.....	44	100.0	9.2	2.4	11.8	23.9	39.3	3.3	10.1	e
355	Special industry machinery (except metalworking machinery).....	26	100.0	16.9	8.2	13.8	9.5	43.0	3.8	4.8	c
356	General industrial machinery and equipment.....	200	100.0	11.0	4.7	27.8	15.6	33.0	3.8	4.1	c
3561	Pumps, air and gas compressors, and measuring and dispensing pumps, also pumping equipment.....	33	100.0	26.2	3.0	6.2	15.8	40.0	1.4	7.4	d
3566	Mechanical power transmission equipment, except ball and roller bearings.....	139	100.0	7.2	3.0	35.5	16.5	33.7	.9	3.2	d
358	Service industry machines.....	149	100.0	18.0	14.1	18.8	15.2	30.5	1.9	1.5	e
359	Miscellaneous machinery and parts (except electrical).....	173	100.0	32.8	7.5	20.7	12.2	20.8	2.7	3.3	b
35999	Machinery and parts, n.e.c. (except electrical).....	171	100.0	32.9	7.6	20.9	11.4	21.0	2.8	3.4	b
36	Electrical machinery and equipment..	797	100.0	13.0	6.2	10.0	15.6	39.3	5.0	10.9	a
361	Electrical transmission and distribution equipment.....	99	100.0	18.2	12.5	11.9	10.9	33.2	3.4	9.9	d
3612	Power, distribution, and specialty transformers.....	62	100.0	27.1	7.6	9.8	6.3	33.3	3.9	12.0	d
362	Electrical industrial apparatus.....	17	100.0	36.1	15.4	7.2	10.8	23.2	1.4	5.9	c
363	Household appliances.....	170	100.0	4.5	4.5	10.4	18.0	42.4	4.3	15.9	a
3634	Electric housewares and fans.....	37	100.0	10.5	2.5	11.5	11.6	36.2	5.5	22.2	c
364	Electric lighting and wiring equipment.....	119	100.0	18.0	10.6	7.4	24.0	28.0	5.4	6.6	d
3642	Lighting fixtures.....	76	100.0	21.3	9.6	5.7	28.1	27.4	2.7	5.2	e
3643	Current carrying wiring devices (including lightning rods).....	10	100.0	17.7	12.5	12.1	9.0	39.0	1.7	8.0	e
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records.	293	100.0	10.1	3.0	10.6	13.4	45.9	6.5	10.5	a
36511	Household and automotive radios, radio-phonograph combinations and phonographs.....	165	100.0	7.5	3.9	12.5	9.4	47.4	5.2	14.1	a

See footnote at end of table.

TABLE 3. Tons of Shipments—Distance and Commodity:
1963—Continued

TCC code	Commodity	Tons (thous.)	Percent distribution by distance of shipment								Sampling variability code ¹
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over	
366	Communication equipment.....	47	100.0	5.9	3.0	7.8	13.5	51.0	4.2	14.6	b
3661	Telephone and telegraph equipment...	42	100.0	2.8	3.1	8.3	14.1	53.4	3.5	14.8	c
367	Electronic components or accessories	31	100.0	55.7	7.0	12.0	7.5	15.5	1.3	1.0	b
3679	Miscellaneous electronic components and accessories.....	11	100.0	44.9	20.0	2.5	7.4	19.7	3.5	2.0	d
369	Miscellaneous electrical machinery, equipment, and supplies.....	18	100.0	4.6	7.8	10.6	26.4	29.9	4.0	16.7	e
37	Transportation equipment.....	1,438	100.0	11.2	14.2	27.5	13.1	19.9	.6	13.5	b
371	Motor vehicles and motor vehicle equipment.....	1,240	100.0	10.4	16.3	29.6	10.2	17.8	.3	15.4	c
3714	Motor vehicle parts and accessories.	363	100.0	3.3	2.1	30.1	15.4	23.1	1.0	25.0	d
37141	Motor vehicle parts (except gear frames and internal combustion engines).....	333	100.0	3.2	2.0	31.8	15.9	18.9	1.1	27.1	d
38	Instruments, photographic goods, optical goods, watches, and clocks.	146	100.0	23.5	14.4	14.5	14.2	26.8	1.4	5.2	b
381	Engineering, laboratory, and scientific instruments.....	9	100.0	12.7	1.2	15.1	14.4	34.7	1.1	20.8	d
382	Measuring, controlling, and indi- cating instruments.....	8	100.0	8.1	16.6	12.0	16.4	36.6	1.4	8.9	c
3821	Mechanical measuring and controlling instruments (except automatic temperature controls).....	7	100.0	8.1	17.3	10.8	17.1	36.3	1.5	8.9	c
384	Surgical, medical, and dental instru- ments and supplies.....	61	100.0	11.7	25.5	20.0	16.1	25.0	1.0	.7	d
386	Photographic equipment and supplies.	59	100.0	41.3	5.5	8.0	11.6	25.0	1.8	6.8	c
39	Miscellaneous products of manufacturing.....	88	100.0	14.8	2.7	10.1	7.2	51.9	6.0	7.3	d
399	Miscellaneous manufactured products.	72	100.0	16.6	2.6	10.2	7.7	48.4	7.2	7.3	d
3999	Manufactured products, n.e.c.....	64	100.0	9.2	2.6	10.3	7.7	55.0	7.0	8.2	d

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b 10-19 percent; c, 20-29 percent; d, 30-49 percent, e, 50 percent or more.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5	6	7	8
	Total.....	70,281	100.0	0.5	0.2	0.9	1.4	0.4	0.4	0.1	0.2
20	Food and kindred products.....	7,434	100.0	.7	.5	2.2	1.1	.6	.7	.1	.8
201	Meat, poultry, and small game; fresh, chilled or frozen.....	380	100.0	2.4	1.1	13.3	1.5	3.8	.3	-	-
204	Grain mill products.....	1,831	100.0	.3	.8	2.9	2.6	1.2	.9	.5	1.6
207	Confectionery and related products...	822	100.0	1.4	.2	2.7	.8	.5	1.9	-	.1
20711	Candy (bars, bulk, packaged).....	640	100.0	1.3	.1	2.8	1.0	.5	.6	-	.2
209	Miscellaneous food preparations and kindred products.....	1,800	100.0	1.0	.7	2.0	.5	.2	.9	-	1.4
23	Apparel, including knit apparel, and other finished textile products.....	24	100.0	5.3	.3	3.1	.5	.5	1.3	-	.6
25	Furniture and fixtures.....	838	100.0	7.9	.6	.3	9.1	.4	.1	-	-
251	Household and office furniture.....	301	100.0	.4	1.5	.2	6.6	.6	.1	-	.1
26	Pulp, paper, and allied products.....	1,250	100.0	.8	-	.8	.2	.4	.1	-	.5
265	Containers, boxes, and related products, paperboard, fiberboard, and pulpboard.....	988	100.0	1.0	-	.9	.2	.4	.1	-	.5
26511	Containers and boxes, paperboard, fiberboard, and pulpboard.....	875	100.0	1.2	-	1.0	.3	.5	.1	-	.6
28	Chemicals and allied products.....	8,930	100.0	.3	.2	.5	5.8	.4	.3	.3	-
281	Industrial chemicals.....	2,697	100.0	.1	-	.2	1.2	.7	.2	-	-
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	1,212	100.0	.4	.3	.5	.6	.4	.8	1.4	-
2841	Soap and other detergents (except specialty cleansers).....	880	100.0	.2	.1	.1	.7	-	1.0	-	-
285	Paints, varnishes, lacquers, enamels, and allied products.....	893	100.0	1.7	1.6	2.0	2.7	.1	.4	.7	.2
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	826	100.0	1.9	1.7	1.8	2.9	.1	.2	.7	.2
29	Petroleum and coal products.....	9,866	100.0	-	-	.5	.1	.2	.4	-	-
291	Products of petroleum refining.....	8,900	100.0	-	-	.1	-	.1	.4	-	-
295	Paving and roofing materials.....	847	100.0	-	-	2.3	.9	1.6	.4	-	-
30	Rubber and miscellaneous plastics products.....	1,367	100.0	.6	1.0	5.2	3.4	1.5	.7	-	.7
306	Miscellaneous fabricated rubber products.....	81	100.0	.1	1.2	3.8	1.5	.9	-	.1	5.9
32	Stone, clay, and glass products.....	7,423	100.0	-	.1	.8	1.0	.2	.2	-	-
329	Abrasives, asbestos, and miscellaneous nonmetallic mineral products..	1,266	100.0	.1	.8	4.3	.9	.8	1.4	-	-
33	Primary metal products.....	22,333	100.0	.2	.1	.2	.1	-	.2	-	-
331	Steel works and rolling mill products	21,125	100.0	.2	.1	.2	.1	-	.2	-	-
3312	Primary iron and steel products (except coke-oven products).....	19,318	100.0	.2	.1	.2	.1	-	.2	-	-
33123	Sheet and strip, iron and steel (except tin mill products).....	5,552	100.0	.6	.2	-	-	-	-	-	-
33124	Bars, bar shapes, and rods.....	8,514	100.0	.1	-	.2	.1	-	.4	-	-
335	Nonferrous metal basic shapes.....	467	100.0	.7	.1	.6	1.2	.2	-	-	-
336	Nonferrous and nonferrous base alloy castings.....	65	100.0	.5	-	-	.1	.2	-	-	-
3361	Aluminum and aluminum base alloy castings.....	34	100.0	.8	-	-	-	-	-	-	-
339	Miscellaneous primary metal products.	314	100.0	1.1	.5	-	.1	.1	-	.1	.2
3391	Iron and steel forgings.....	217	100.0	.6	.5	-	-	-	-	-	-

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15 ²	16	17	18
	Total.....	0.3	0.8	1.6	0.7	4.6	1.1	30.3	9.0	1.8	2.2
20	Food and kindred products.....	1.1	3.3	1.5	.5	3.3	.8	28.4	2.2	1.7	1.1
201	Meat, poultry, and small game; fresh, chilled or frozen.....	.2	.5	.9	—	6.9	1.0	16.5	18.2	.4	.7
204	Grain mill products.....	3.2	6.7	2.6	.6	3.8	1.3	12.0	.7	.6	.9
207	Confectionery and related products...	.4	.8	2.6	.6	2.5	1.0	5.0	1.0	3.3	1.2
20711	Candy (bars, bulk, packaged).....	.6	.7	2.0	.6	1.8	1.1	3.1	.4	3.6	.9
209	Miscellaneous food preparations and kindred products.....	.9	5.3	1.3	.9	6.0	.9	6.8	1.7	2.8	1.7
23	Apparel, including knit apparel, and other finished textile products.....	.3	.4	1.0	.6	1.9	1.0	6.2	.4	1.0	2.6
25	Furniture and fixtures.....	.6	4.3	5.4	3.7	3.3	.3	7.8	1.8	1.3	1.0
251	Household and office furniture.....	.6	.8	1.1	.1	7.7	.8	20.6	3.8	2.3	2.5
26	Pulp, paper, and allied products.....	.1	.6	.3	.4	3.8	.7	40.1	2.3	1.4	1.5
265	Containers, boxes, and related products, paperboard, fiberboard, and pulpboard.....	.2	.6	.2	.5	4.1	.8	39.2	2.2	1.8	1.9
26511	Containers and boxes, paperboard, fiberboard, and pulpboard.....	.2	.7	.1	.5	4.6	.9	44.0	2.4	1.9	2.0
28	Chemicals and allied products.....	.2	.6	1.8	.5	4.3	3.0	13.5	3.7	2.9	4.7
281	Industrial chemicals.....	.3	1.3	1.0	.2	4.8	2.6	25.6	5.8	5.1	3.7
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	.8	.5	6.6	.7	7.3	2.6	10.8	4.0	.7	2.1
2841	Soap and other detergents (except specialty cleansers).....	—	.1	7.6	.2	9.0	3.4	13.8	4.8	.3	2.5
285	Paints, varnishes, lacquers, enamels, and allied products.....	—	.9	3.3	1.1	2.2	1.2	11.4	2.9	1.6	3.8
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	—	.9	2.1	1.2	2.0	1.2	11.9	2.9	1.7	3.9
29	Petroleum and coal products.....	.2	—	.6	.1	2.6	.6	26.9	33.3	1.6	1.3
291	Products of petroleum refining.....	—	—	.5	—	1.8	.4	28.7	36.2	1.7	1.0
295	Paving and roofing materials.....	1.8	.4	1.6	1.0	10.6	2.8	11.7	8.0	.6	4.1
30	Rubber and miscellaneous plastics products.....	.7	1.7	4.9	4.6	8.3	1.0	6.8	2.5	.5	4.3
306	Miscellaneous fabricated rubber products.....	—	.1	.9	.3	6.2	.2	17.8	2.0	6.8	1.8
32	Stone, clay, and glass products.....	.2	1.4	.2	.8	1.4	.8	56.5	.8	.7	.4
329	Abrasives, asbestos, and miscellaneous nonmetallic mineral products..	1.1	.1	1.4	1.5	6.2	1.6	52.8	.7	.2	2.1
33	Primary metal products.....	—	.1	2.2	1.0	5.8	.8	34.6	8.9	1.9	2.5
331	Steel works and rolling mill products	—	.1	2.1	1.0	5.8	.7	35.9	9.1	1.9	2.4
3312	Primary iron and steel products (except coke-oven products).....	—	.1	2.2	1.0	6.0	.7	35.0	9.9	2.0	2.6
33123	Sheet and strip, iron and steel (except tin mill products).....	—	—	1.5	.3	4.4	.3	37.9	7.0	1.7	3.4
33124	Bars, bar shapes, and rods.....	—	.3	3.0	.4	8.2	.4	29.7	8.0	2.1	2.5
335	Nonferrous metal basic shapes.....	—	.5	5.6	.1	3.6	.6	6.7	1.6	1.1	4.9
336	Nonferrous and nonferrous base alloy castings.....	—	.2	.9	—	27.0	12.7	13.1	8.4	—	4.5
3361	Aluminum and aluminum base alloy castings.....	—	.3	.2	—	32.5	23.2	4.4	6.6	.1	2.4
339	Miscellaneous primary metal products.	.4	.5	1.9	.2	13.5	.7	10.7	6.4	.9	.7
3391	Iron and steel forgings.....	.5	.4	1.7	.3	14.9	1.0	9.6	9.2	.9	.5

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									Sampling variability code ³
		19	20	21	22	23	24	25	30	50	
	Total.....	0.3	0.6	1.2	0.5	0.2	0.5	0.9	19.7	19.6	
20	Food and kindred products.....	.4	1.3	.5	1.1	-	1.5	3.2	25.8	15.6	c
201	Meat, poultry, and small game; fresh, chilled or frozen.....	.4	.3	-	-	-	-	-	20.0	11.6	e
204	Grain mill products.....	.8	.8	.5	.3	-	1.8	1.9	22.1	28.6	b
207	Confectionery and related products....	.2	.9	.1	.9	.4	6.5	21.9	22.7	20.4	b
20711	Candy (bars, bulk, packaged).....	.3	.8	.1	.9	.5	8.2	27.8	23.6	16.5	b
209	Miscellaneous food preparations and kindred products.....	.6	2.1	.9	3.7	-	-	.9	46.5	10.3	d
23	Apparel, including knit apparel, and other finished textile products.....	.1	3.6	.3	1.1	1.3	1.6	2.5	22.3	40.2	d
25	Furniture and fixtures.....	-	.1	.2	.1	.2	1.7	.6	39.0	10.2	e
251	Household and office furniture.....	-	.3	.3	.1	.4	4.8	1.4	22.2	20.7	d
26	Pulp, paper, and allied products.....	.4	.2	.1	.3	.3	.4	.7	12.5	31.1	c
265	Containers, boxes, and related products, paperboard, fiberboard, and pulpboard.....	.2	.1	-	.4	.2	-	.4	12.2	31.9	c
26511	Containers and boxes, paperboard, fiberboard, and pulpboard.....	.2	.2	-	.4	.3	-	.3	12.7	24.9	d
28	Chemicals and allied products.....	.8	.3	.2	.4	-	.4	.4	23.3	31.2	c
281	Industrial chemicals.....	.1	.4	.2	.3	-	.8	.4	19.7	25.3	c
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	4.9	.5	.4	2.1	.1	.5	1.1	37.3	12.6	b
2841	Soap and other detergents (except specialty cleansers).....	6.3	-	-	2.3	-	.3	-	37.3	10.0	b
285	Paints, varnishes, lacquers, enamels, and allied products.....	.5	.5	.3	.2	-	.2	.7	37.8	22.0	d
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	.3	.5	.3	.2	-	.1	.2	38.1	23.0	e
29	Petroleum and coal products.....	-	-	.2	-	-	.1	-	18.3	13.0	a
291	Products of petroleum refining.....	-	-	.3	-	-	.1	-	17.9	10.8	a
295	Paving and roofing materials.....	-	-	-	.2	-	-	-	20.9	31.1	c
30	Rubber and miscellaneous plastics products.....	.2	3.7	.2	.3	.1	.8	1.2	31.4	13.7	e
306	Miscellaneous fabricated rubber products.....	1.1	3.2	.1	.1	-	.2	1.6	35.0	9.1	e
32	Stone, clay, and glass products.....	.2	-	.1	-	-	-	.1	9.5	24.6	e
329	Abrasives, asbestos, and miscellaneous nonmetallic mineral products.....	.8	.1	.3	.1	.1	-	.7	8.4	13.5	d
33	Primary metal products.....	.1	.2	3.0	.8	.3	.1	.4	19.4	17.1	b
331	Steel works and rolling mill products.	.1	-	3.1	.8	.3	.1	.3	19.2	16.3	b
3312	Primary iron and steel products (except coke-oven products).....	.1	-	2.9	.9	.4	.1	.3	20.0	15.0	b
33123	Sheet and strip, iron and steel (except tin mill products).....	.2	-	-	.7	-	-	.6	18.9	22.3	a
33124	Bars, bar shapes, and rods.....	-	-	6.3	1.2	-	.2	-	23.8	13.1	d
335	Nonferrous metal basic shapes.....	.1	5.1	1.4	-	.9	3.4	5.1	11.5	45.0	c
336	Nonferrous and nonferrous base alloy castings.....	-	-	.6	-	-	.1	.2	23.9	7.6	d
3361	Aluminum and aluminum base alloy castings.....	-	-	1.1	-	-	.1	.4	22.4	5.5	e
339	Miscellaneous primary metal products..	-	1.0	.2	-	.1	.1	.4	41.3	18.9	b
3391	Iron and steel forgings.....	-	1.5	.4	-	.2	-	.4	45.4	12.0	a

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Tons (thous.)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5	6	7	8
34	Fabricated metal products.....	4,113	100.0	0.5	0.2	1.0	1.2	0.5	0.4	0.1	0.5
342	Cutlery, hand tools, and general hardware.....	136	100.0	1.2	1.0	4.2	.7	1.7	.7	.2	.2
3429	Miscellaneous hardware.....	29	100.0	.5	.4	4.7	.4	2.7	2.5	-	.1
344	Structural and miscellaneous metal products.....	2,032	100.0	.4	-	.4	.6	.3	.5	-	.2
3441	Structural metal products.....	1,910	100.0	.5	-	.3	.6	.2	.5	-	-
346	Metal stampings.....	312	100.0	1.1	.1	1.3	6.1	1.9	.5	-	-
349	Miscellaneous fabricated metal products.....	410	100.0	.3	.2	4.1	2.1	1.0	1.0	.1	.1
3494	Valves and pipe fittings (except plumbers' brass goods and fittings).	125	100.0	.4	.7	12.8	6.0	.9	.3	.4	.4
35	Machinery, except electrical.....	1,658	100.0	1.5	.3	5.2	2.0	2.3	1.1	.2	.1
353	Construction, mining, and materials handling machinery and equipment....	402	100.0	4.9	.1	11.5	3.1	.9	2.5	.2	-
3531	Construction machinery and equipment.	277	100.0	.8	-	15.9	.5	.6	3.5	.2	.1
354	Metalworking machinery and equipment.	374	100.0	.1	.5	3.1	1.6	6.8	1.9	-	-
3548	Metalworking machinery (except machine tools).....	72	100.0	.3	2.6	6.4	8.3	.3	9.6	-	-
35482	Power driven hand tools, parts, and accessories.....	44	100.0	.5	4.3	10.6	7.7	.4	.1	-	-
355	Special industry machinery (except metalworking machinery).....	26	100.0	.8	.3	5.4	.4	3.1	.6	4.4	.1
356	General industrial machinery and equipment.....	200	100.0	1.0	.2	5.4	2.2	1.8	.1	.3	.6
3561	Pumps, air and gas compressors, and measuring and dispensing pumps, also pumping equipment.....	33	100.0	.3	.5	21.1	.4	.5	.6	.3	-
3566	Mechanical power transmission equipment, except ball and roller bearings.....	139	100.0	1.3	.2	2.4	3.1	2.4	-	-	.8
358	Service industry machines.....	149	100.0	.7	-	2.7	3.5	2.4	-	-	-
359	Miscellaneous machinery and parts (except electrical).....	173	100.0	.7	.7	4.2	.4	.7	.3	-	.1
35999	Machinery and parts, n.e.c. (except electrical).....	171	100.0	.7	.7	4.2	.4	.7	.3	-	.1
36	Electrical machinery and equipment...	797	100.0	4.1	1.6	3.8	3.7	3.5	1.6	.3	.1
361	Electrical transmission and distribution equipment.....	99	100.0	4.0	.1	1.6	2.0	4.7	.1	2.5	.1
3612	Power, distribution, and specialty transformers.....	62	100.0	5.6	.1	1.7	.8	6.9	-	4.0	-
362	Electrical industrial apparatus.....	17	100.0	.6	1.2	2.3	2.4	.7	1.2	.1	-
363	Household appliances.....	170	100.0	4.0	2.2	2.8	5.7	6.9	.3	-	.1
3634	Electric housewares and fans.....	37	100.0	4.2	.7	8.5	3.8	2.1	1.4	-	-
364	Electric lighting and wiring equipment	119	100.0	.7	1.8	1.1	1.6	.8	.4	.1	-
3642	Lighting fixtures.....	76	100.0	1.0	2.7	.9	.9	.6	.2	.1	-
3643	Current carrying wiring devices (including lightning rods).....	10	100.0	.7	.5	1.4	7.5	3.1	3.5	.6	-
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records..	293	100.0	7.1	2.3	6.7	4.2	3.2	1.0	-	.1
36511	Household and automotive radios, radio-phonograph combinations and phonographs.....	165	100.0	5.2	1.4	7.6	3.8	2.3	1.7	-	.2

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15 ²	16	17	18
34	Fabricated metal products.....	0.7	0.5	1.1	0.3	8.6	1.2	16.4	3.1	2.7	3.6
342	Cutlery, hand tools, and general hardware.....	1.8	1.9	2.8	.7	4.5	.8	6.8	2.4	.8	1.6
3429	Miscellaneous hardware.....	.1	8.6	1.3	.6	3.2	.1	22.1	3.2	.3	1.1
344	Structural and miscellaneous metal products.....	-	.1	1.1	.1	2.6	.2	18.2	3.5	3.6	5.7
3441	Structural metal products.....	-	.1	1.1	-	2.7	.2	18.6	3.7	3.5	6.0
346	Metal stampings.....	.2	2.9	1.7	.2	3.1	3.3	5.8	3.0	.7	2.5
349	Miscellaneous fabricated metal products.....	2.0	1.5	1.3	.3	3.4	.2	30.7	2.0	.3	1.5
3494	Valves and pipe fittings (except plumbers' brass goods and fittings)..	6.4	1.5	3.2	.8	3.7	.7	16.2	.5	.9	1.0
35	Machinery, except electrical.....	.5	.9	1.7	1.0	10.5	1.0	16.8	3.7	1.0	1.6
353	Construction, mining, and materials handling machinery and equipment....	.6	2.1	.6	.7	4.9	.6	8.2	.9	.7	.7
3531	Construction machinery and equipment..	.9	-	.6	.1	6.3	.6	10.3	1.0	.8	.8
354	Metalworking machinery and equipment..	.1	.6	.9	.9	25.9	.7	33.8	1.6	.4	.6
3548	Metalworking machinery (except machine tools).....	.5	1.0	1.2	4.4	3.1	.6	10.6	1.4	1.3	2.6
35482	Power driven hand tools, parts, and accessories.....	.8	1.6	1.6	7.3	5.2	.6	.5	2.3	2.2	4.3
355	Special industry machinery (except metalworking machinery).....	.2	.6	1.7	.1	4.3	3.4	9.8	1.5	4.2	1.6
356	General industrial machinery and equipment.....	1.0	.3	3.9	1.7	2.3	1.5	5.8	1.5	.9	7.7
3561	Pumps, air and gas compressors, and measuring and dispensing pumps, also pumping equipment.....	.1	.6	7.1	1.6	2.0	1.0	14.4	4.0	.2	1.4
3566	Mechanical power transmission equipment, except ball and roller bearings.....	1.4	.3	3.8	1.9	2.5	.8	3.2	.9	1.0	10.7
358	Service industry machines.....	.1	.5	3.1	.8	8.0	2.5	16.0	.2	4.8	.6
359	Miscellaneous machinery and parts (except electrical).....	-	1.3	3.6	1.0	10.6	1.2	24.4	1.2	.3	1.0
35999	Machinery and parts, n.e.c. (except electrical).....	-	1.3	2.9	1.0	10.7	1.2	24.7	1.2	.3	1.0
36	Electrical machinery and equipment....	.8	1.2	2.3	1.9	3.5	1.9	8.7	1.5	3.0	2.0
361	Electrical transmission and distribution equipment.....	1.2	4.7	2.3	1.9	4.6	4.2	12.6	5.1	1.2	1.0
3612	Power, distribution, and specialty transformers.....	.1	7.6	1.9	.3	2.0	4.6	19.3	7.0	1.3	.4
362	Electrical industrial apparatus.....	.4	1.2	.8	.6	2.9	.5	34.6	1.5	1.1	.6
363	Household appliances.....	-	.5	2.1	4.0	2.7	2.7	2.4	1.6	2.8	1.7
3634	Electric housewares and fans.....	-	.5	5.8	.2	6.2	1.1	7.2	3.2	3.8	1.6
364	Electric lighting and wiring equipment	2.0	2.1	1.5	.1	3.7	.4	5.2	.9	12.1	1.4
3642	Lighting fixtures.....	3.0	2.7	.8	.1	4.3	.2	5.0	.3	17.3	.2
3643	Current carrying wiring devices (including lightning rods).....	.3	.6	2.6	.2	3.6	.6	11.1	8.8	1.0	.4
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records...	.6	.4	3.1	2.0	4.4	1.3	7.7	.9	.5	3.6
36511	Household and automotive radios, radio-phonograph combinations and phonographs.....	.9	.8	2.9	.1	6.6	.4	3.3	1.5	.1	2.6

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									Sampling variability code ³
		19	20	21	22	23	24	25	30	50	
34	Fabricated metal products.....	1.1	3.1	1.6	0.8	0.3	0.8	2.3	29.1	18.3	c
342	Cutlery, hand tools, and general hardware.....	.2	3.0	2.0	.8	.4	7.8	14.7	18.0	19.1	d
3429	Miscellaneous hardware.....	.3	.9	.2	1.1	.1	1.1	2.9	20.9	20.6	d
344	Structural and miscellaneous metal products.....	.6	4.7	1.7	.7	-	.3	3.1	32.4	19.0	b
3441	Structural metal products.....	.6	4.7	1.8	.7	-	.2	3.2	32.2	18.6	b
346	Metal stampings.....	4.0	4.6	3.3	.5	.1	2.6	.7	31.4	18.4	c
349	Miscellaneous fabricated metal products.....	2.1	1.2	3.3	.2	.1	1.1	1.0	27.8	11.1	d
3494	Valves and pipe fittings (except plumbers' brass goods and fittings)..	.4	3.7	11.0	.2	.3	3.5	2.4	12.2	9.5	d
35	Machinery, except electrical.....	1.1	1.4	.4	.7	.4	1.3	1.2	18.6	23.5	b
353	Construction, mining, and materials handling machinery and equipment....	3.0	.5	.2	1.3	.7	3.9	1.1	22.2	23.9	b
3531	Construction machinery and equipment..	2.6	.7	.2	1.9	.9	5.6	1.1	20.3	23.7	b
354	Metalworking machinery and equipment..	.2	.2	.2	.1	.4	.4	1.5	10.3	7.2	c
3548	Metalworking machinery (except machine tools).....	.9	.9	.8	.4	2.3	1.9	6.6	21.3	10.7	d
35482	Power driven hand tools, parts, and accessories.....	1.5	1.5	1.3	.7	1.0	3.1	4.4	20.9	15.6	e
355	Special industry machinery (except metalworking machinery).....	1.3	2.4	1.5	.1	.3	.3	1.6	25.4	24.6	c
356	General industrial machinery and equipment.....	1.2	.6	.3	-	.6	.2	2.3	16.3	40.3	c
3561	Pumps, air and gas compressors, and measuring and dispensing pumps, also pumping equipment.....	6.3	.3	.7	.2	.1	.5	5.5	9.4	20.9	d
3566	Mechanical power transmission equipment, except ball and roller bearings	.2	.8	-	-	.8	.1	2.0	12.8	46.6	d
358	Service industry machines.....	.6	2.4	.7	3.2	-	.7	.2	26.8	19.5	e
359	Miscellaneous machinery and parts (except electrical).....	.2	.2	.2	.4	.5	1.1	1.5	21.1	23.1	b
35999	Machinery and parts, n.e.c. (except electrical).....	.2	.2	.2	.4	.5	1.1	1.5	21.1	23.4	b
36	Electrical machinery and equipment....	1.8	2.4	.5	.3	1.3	3.0	3.8	29.9	11.5	a
361	Electrical transmission and distribution equipment.....	.3	1.3	.3	.1	.1	2.3	6.2	19.0	16.5	d
3612	Power, distribution, and specialty transformers.....	.1	.3	.2	.2	.2	2.3	7.9	13.7	11.5	d
362	Electrical industrial apparatus.....	-	.5	.9	-	1.4	.5	1.5	16.3	26.2	c
363	Household appliances.....	2.4	2.1	.1	1.2	2.2	6.4	4.8	29.1	9.2	a
3634	Electric housewares and fans.....	.9	.7	.4	.4	5.3	12.3	3.0	21.0	5.7	c
364	Electric lighting and wiring equipment.....	.8	.7	1.3	.3	2.2	.7	.7	41.8	15.6	d
3642	Lighting fixtures.....	.1	.5	1.3	.3	.2	.5	.5	46.6	9.7	e
3643	Current carrying wiring devices (including lightning rods).....	.1	.2	5.1	.5	1.1	1.2	4.5	25.0	15.8	e
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records...	2.8	4.5	.6	.1	.8	1.9	4.4	31.0	4.8	a
36511	Household and automotive radios, radio-phonograph combinations and phonographs.....	2.6	7.3	1.1	.1	1.0	3.2	6.5	31.8	5.0	a

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Tons (thous.)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5	6	7	8
366	Communication equipment.....	47	100.0	0.6	0.2	1.1	3.8	1.2	17.4	-	0.1
3661	Telephone and telegraph equipment....	42	100.0	.5	.2	.6	4.2	1.3	19.5	-	.1
367	Electronic components or accessories..	31	100.0	.3	.3	.8	5.6	.1	-	-	-
3679	Miscellaneous electronic components and accessories.....	11	100.0	.8	.8	1.0	3.4	.3	.1	-	-
369	Miscellaneous electrical machinery, equipment, and supplies.....	18	100.0	.8	-	8.5	-	1.1	.3	-	-
37	Transportation equipment.....	1,438	100.0	1.1	.1	2.0	2.7	.7	.5	0.1	-
371	Motor vehicles and motor vehicle equipment.....	1,240	100.0	1.2	.1	2.2	3.1	.8	.6	.1	.1
3714	Motor vehicle parts and accessories..	363	100.0	.4	.2	2.5	6.3	1.3	.1	.4	.2
37141	Motor vehicle parts (except gear frames and internal combustion engines).....	333	100.0	.5	.2	1.0	6.8	1.4	.2	.4	.2
38	Instruments, photographic goods, optical goods, watches, and clocks..	146	100.0	.8	.1	4.5	1.1	.7	.3	.3	.1
381	Engineering, laboratory, and scientific instruments.....	9	100.0	3.8	.6	5.1	4.1	1.5	1.2	-	-
382	Measuring, controlling, and indicating instruments.....	8	100.0	1.4	.3	14.1	1.9	2.8	.5	3.1	.9
3821	Mechanical measuring and controlling instruments (except automatic temperature controls).....	7	100.0	1.1	.3	16.4	2.2	1.1	.3	3.7	1.0
384	Surgical, medical, and dental instruments and supplies.....	61	100.0	.1	-	2.7	1.0	-	-	-	.1
386	Photographic equipment and supplies..	59	100.0	1.2	.1	3.5	.4	.9	.3	.3	.2
39	Miscellaneous products of manufacturing.....	88	100.0	2.5	.2	16.8	2.1	4.0	.2	-	1.5
399	Miscellaneous manufactured products..	72	100.0	1.4	.2	11.6	2.6	4.5	.2	-	1.9
3999	Manufactured products, n.e.c.....	64	100.0	1.6	.2	13.3	2.9	5.1	.3	-	2.1

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15 ²	16	17	18
366	Communication equipment.....	0.1	0.1	2.7	0.1	0.8	3.9	1.6	0.7	1.3	0.4
3661	Telephone and telegraph equipment.....	.2	.1	2.8	.1	.6	4.3	1.7	.8	1.5	.4
367	Electronic components or accessories..	1.1	.3	.1	-	.3	-	55.3	-	2.8	-
3679	Miscellaneous electronic components and accessories.....	3.3	.9	.3	.1	.9	.1	43.5	-	.4	-
369	Miscellaneous electrical machinery, equipment, and supplies.....	.6	.6	.6	.2	1.0	.3	4.1	.2	.1	.1
37	Transportation equipment.....	.1	.2	2.6	.1	12.6	.6	6.8	7.3	3.3	4.1
371	Motor vehicles and motor vehicle equipment.....	.1	.2	2.9	.1	14.5	.7	5.4	8.5	3.5	3.5
3714	Motor vehicle parts and accessories...	.3	.7	1.1	.3	13.0	1.7	2.5	.4	8.6	.5
37141	Motor vehicle parts (except gear frames and internal combustion engines).....	.3	.7	1.2	.3	13.9	1.8	2.5	.4	9.2	.4
38	Instruments, photographic goods, optical goods, watches, and clocks...	.3	1.6	4.1	.6	4.1	2.5	19.5	3.2	1.7	2.0
381	Engineering, laboratory, and scientific instruments.....	.4	.6	4.6	.9	7.9	.2	11.1	.8	.6	3.1
382	Measuring, controlling, and indicating instruments.....	.5	4.9	2.1	2.0	4.2	.7	3.3	3.6	2.7	4.3
3821	Mechanical measuring and controlling instruments (except automatic temperature controls).....	.5	5.6	1.8	2.3	3.1	.7	3.2	4.0	2.8	4.5
384	Surgical, medical, and dental instruments and supplies.....	-	-	2.6	.2	4.2	5.0	4.0	6.0	1.4	1.6
386	Photographic equipment and supplies...	.4	2.9	5.5	.8	1.7	.8	40.6	1.0	2.0	1.4
39	Miscellaneous products of manufacturing.....	-	8.9	.7	.2	2.3	6.5	6.3	7.8	.4	.3
399	Miscellaneous manufactured products...	-	10.8	.6	.2	1.2	7.8	6.5	9.5	.5	.4
3999	Manufactured products, n.e.c.....	-	11.3	.7	.2	1.4	7.7	7.2	1.2	.5	.4

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									Sampling variability code ³
		19	20	21	22	23	24	25	30	50	
366	Communication equipment.....	0.3	0.5	0.1	-	0.2	8.3	2.2	30.1	22.2	b
3661	Telephone and telegraph equipment.....	.1	.3	-	0.1	.1	9.2	1.7	31.4	18.2	c
367	Electronic components or accessories..	-	.4	.3	-	-	.1	.5	5.3	26.4	b
3679	Miscellaneous electronic components and accessories.....	-	1.3	1.0	-	.1	.3	1.0	14.5	25.9	d
369	Miscellaneous electrical machinery, equipment, and supplies.....	1.4	.3	.4	-	4.8	2.3	6.3	44.7	21.3	e
37	Transportation equipment.....	1.3	2.5	.1	.3	.3	1.3	4.6	20.6	24.1	b
371	Motor vehicles and motor vehicle equipment.....	1.5	2.9	-	.3	.2	1.5	5.3	17.9	22.8	c
3714	Motor vehicle parts and accessories...	2.4	.6	.1	.1	.2	1.5	.2	16.1	38.3	d
37141	Motor vehicle parts (except gear frames and internal combustion engines).....	2.5	.5	.1	.1	.1	1.6	.2	12.1	41.4	d
38	Instruments, photographic goods, optical goods, watches, and clocks...	1.4	1.6	.3	1.5	.9	1.3	1.9	27.9	15.7	b
381	Engineering, laboratory, and scientific instruments.....	6.5	.7	1.2	.3	3.3	2.6	11.1	15.7	12.1	d
382	Measuring, controlling, and indicating instruments.....	.4	.4	1.6	1.5	1.6	2.1	3.4	25.2	10.5	c
3821	Mechanical measuring and controlling instruments (except automatic temperature controls).....	.2	.2	1.8	1.6	1.9	2.5	2.5	25.4	9.3	c
384	Surgical, medical, and dental instruments and supplies.....	.1	-	-	3.0	-	-	.3	42.1	25.6	d
386	Photographic equipment and supplies...	2.2	3.7	.1	.3	1.2	2.4	1.9	16.7	7.5	c
39	Miscellaneous products of manufacturing.....	.5	.4	1.2	.1	.2	1.4	4.0	17.7	13.8	d
399	Miscellaneous manufactured products...	.6	.5	.3	.1	.2	1.3	3.9	18.6	14.6	d
3999	Manufactured products, n.e.c.....	.6	.5	.3	.1	.3	1.5	4.4	21.1	15.1	d

¹See description of production areas on page 313.²Includes only those shipments that originated in one city in this area and terminated in another city in this area.³Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 5. Ton-Miles of Shipments—Production Area Destination and Commodity: 1963

TCC code	Commodity	Ton-miles (millions)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5	6	7	8
	Total.....	18,491	100.0	1.5	0.5	2.5	3.9	0.9	0.8	0.2	0.4
20	Food and kindred products.....	2,892	100.0	1.4	.9	4.1	2.0	1.1	1.2	.2	1.1
201	Meat, poultry, and small game; fresh, chilled or frozen.....	138	100.0	5.6	2.3	26.0	2.8	6.8	.5	-	-
204	Grain mill products.....	887	100.0	.5	1.2	4.2	3.8	1.6	1.2	.7	1.9
207	Confectionery and related products...	724	100.0	1.4	.2	2.2	.7	.4	1.4	-	.1
20711	Candy (bars, bulk, packaged).....	635	100.0	1.1	.1	2.1	.7	.3	.3	-	.1
209	Miscellaneous food preparations and kindred products.....	747	100.0	2.1	1.3	3.5	.9	.4	1.3	-	2.0
23	Apparel, including knit apparel, and other finished textile products....	14	100.0	7.9	.4	3.9	.7	.6	1.3	-	.6
25	Furniture and fixtures.....	581	100.0	9.6	.6	.3	9.3	.4	.1	-	-
251	Household and office furniture.....	128	100.0	.9	2.7	.4	10.7	1.0	.2	-	.1
26	Pulp, paper, and allied products.....	231	100.0	3.8	-	3.1	.9	1.5	.4	-	1.7
265	Containers, boxes, and related products, paperboard, fiberboard, and pulpboard.....	168	100.0	5.2	.1	3.6	.9	1.6	.4	-	2.2
26511	Containers and boxes, paperboard, fiberboard, and pulpboard.....	148	100.0	5.8	.1	4.1	1.1	1.9	.4	-	2.5
28	Chemicals and allied products.....	2,912	100.0	.9	.5	1.0	12.4	.8	.5	.5	-
281	Industrial chemicals.....	697	100.0	.2	.1	.7	3.3	1.9	.6	.1	-
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	532	100.0	.7	.5	.7	1.0	.7	1.1	2.1	-
2841	Soap and other detergents (except specialty cleansers).....	344	100.0	.5	.1	.2	1.3	-	1.5	-	-
285	Paints, varnishes, lacquers, enamels, and allied products.....	379	100.0	3.5	2.9	3.4	4.4	.1	.6	1.1	.2
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	346	100.0	3.8	3.2	3.2	4.9	.1	.3	1.1	.3
29	Petroleum and coal products.....	1,302	100.0	-	.1	2.7	.5	1.2	1.9	-	-
291	Products of petroleum refining.....	1,023	100.0	-	.1	.7	-	.3	2.2	-	-
295	Paving and roofing materials.....	199	100.0	-	-	7.0	3.0	4.7	1.1	-	-
30	Rubber and miscellaneous plastics products.....	617	100.0	1.2	1.7	8.3	5.3	2.3	.9	-	1.0
306	Miscellaneous fabricated rubber products.....	27	100.0	.2	2.9	8.2	3.3	1.8	.1	.1	10.8
32	Stone, clay, and glass products.....	1,161	100.0	.1	.7	3.6	4.5	.7	.9	-	.2
329	Abrasives, asbestos, and miscellaneous nonmetallic mineral products....	270	100.0	.3	2.9	14.3	2.8	2.4	4.0	.1	.1
33	Primary metal products.....	4,757	100.0	1.0	.3	.6	.5	.1	.6	-	.1
331	Steel works and rolling mill products	4,333	100.0	.9	.2	.6	.4	-	.6	-	-
3312	Primary iron and steel products (except coke-oven products).....	3,928	100.0	.9	.2	.7	.4	-	.7	-	-
33123	Sheet and strip, iron and steel (except tin mill products).....	884	100.0	3.0	1.1	.2	.2	.2	-	-	-
33124	Bars, bar shapes, and rods.....	2,007	100.0	.4	-	.7	.4	-	.9	-	-
335	Nonferrous metal basic shapes.....	258	100.0	1.0	.1	.7	1.5	.2	-	-	-
336	Nonferrous and nonferrous base alloy castings.....	13	100.0	1.9	.1	-	.2	.6	-	-	-
3361	Aluminum and aluminum base alloy castings.....	7	100.0	3.0	.2	-	-	.1	-	-	-
339	Miscellaneous primary metal products.	75	100.0	4.0	1.6	-	.3	.3	-	.3	.6
3391	Iron and steel forgings.....	47	100.0	2.4	1.8	.1	-	.1	-	-	-

See footnotes at end of table.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15 ²	16	17	18
	Total.....	0.7	1.4	2.0	1.1	4.0	1.0	2.7	3.4	2.4	2.2
20	Food and kindred products.....	2.0	3.9	1.3	.5	2.0	.5	1.1	.4	1.6	.7
201	Meat, poultry, and small game; fresh, chilled or frozen.....	.4	.7	.8	-	4.4	.7	.9	2.0	.4	.5
204	Grain mill products.....	4.7	6.4	1.7	.5	1.7	.6	.7	.1	.4	.5
207	Confectionery and related products....	.3	.4	.9	.3	.7	.3	.1	.1	1.3	.3
20711	Candy (bars, bulk, packaged).....	.3	.3	.7	.3	.4	.3	-	-	1.3	.2
209	Miscellaneous food preparations and kindred products.....	1.5	5.8	1.1	.9	3.4	.5	.4	.4	2.4	1.1
23	Apparel, including knit apparel, and other finished textile products.....	.4	.3	.6	.4	.7	.4	.2	.1	.6	1.2
25	Furniture and fixtures.....	.6	2.8	2.4	2.2	1.1	.1	.2	.2	.7	.4
251	Household and office furniture.....	.9	1.0	.8	.1	4.3	.5	1.0	.9	1.9	1.4
26	Pulp, paper, and allied products.....	.4	1.6	.5	.8	4.8	1.0	4.4	1.0	2.7	2.1
265	Containers, boxes, and related products, paperboard, fiberboard, and pulpboard.....	.5	1.7	.4	1.1	5.6	1.2	4.9	1.0	3.7	2.8
26511	Containers and boxes, paperboard, fiberboard, and pulpboard.....	.6	1.9	.2	1.1	6.3	1.3	5.5	1.1	3.9	3.0
28	Chemicals and allied products.....	.4	.8	1.8	.6	3.0	2.2	1.0	1.0	3.2	3.7
281	Industrial chemicals.....	.8	2.3	1.2	.3	4.3	2.5	2.3	2.0	7.3	3.5
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	1.1	.5	4.6	.7	3.8	1.4	.5	.9	.6	1.2
2841	Soap and other detergents (except specialty cleansers).....	-	.1	5.9	.2	5.3	2.0	.7	1.2	.3	1.6
285	Paints, varnishes, lacquers, enamels, and allied products.....	-	1.1	2.5	1.0	1.2	.7	.5	.6	1.3	2.4
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	-	1.1	1.7	1.1	1.1	.7	.5	.6	1.4	2.5
29	Petroleum and coal products.....	.7	.1	1.4	.4	4.5	1.0	4.6	28.4	4.2	2.4
291	Products of petroleum refining.....	-	-	1.3	-	3.5	.7	5.6	35.7	5.2	2.1
295	Paving and roofing materials.....	4.4	.7	2.2	1.9	10.8	2.7	1.2	2.7	.9	4.3
30	Rubber and miscellaneous plastics products.....	1.0	1.8	3.9	4.2	4.3	.5	.4	.4	.4	2.5
306	Miscellaneous fabricated rubber products.....	.1	.1	.9	.4	4.3	.1	1.9	.3	6.7	1.5
32	Stone, clay, and glass products.....	.8	4.1	.5	2.2	2.0	1.3	11.0	.3	1.6	.6
329	Abrasives, asbestos, and miscellaneous nonmetallic mineral products.....	3.6	.2	2.1	2.9	6.9	1.9	7.9	.3	.3	2.6
33	Primary metal products.....	-	.3	3.2	1.7	6.1	.8	3.5	3.8	3.2	3.0
331	Steel works and rolling mill products.	-	.3	3.2	1.8	6.3	.7	3.7	4.0	3.4	3.0
3312	Primary iron and steel products (except coke-oven products).....	-	.3	3.4	2.0	6.6	.8	3.8	4.4	3.7	3.2
33123	Sheet and strip, iron and steel (except tin mill products).....	-	-	3.0	.9	6.1	.4	5.3	4.4	4.0	5.5
33124	Bars, bar shapes, and rods.....	-	.6	3.8	.6	7.8	.4	2.5	2.9	3.2	2.7
335	Nonferrous metal basic shapes.....	-	.4	3.3	.1	1.5	.3	.3	.2	.7	2.3
336	Nonferrous and nonferrous base alloy castings.....	-	.6	1.4	-	31.0	15.5	1.2	2.4	.1	5.8
3361	Aluminum and aluminum base alloy castings.....	-	.8	.4	-	33.0	26.4	.5	1.4	.1	2.9
339	Miscellaneous primary metal products..	1.0	1.0	2.5	.4	12.9	.7	1.4	1.9	1.4	.7
3391	Iron and steel forgings.....	1.4	.9	2.5	.6	15.7	1.2	1.2	3.0	1.6	.6

See footnotes at end of table.

TABLE 5. Ton-Miles of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued								
		19	20	21	22	23	24	25	30	50
	Total.....	0.8	1.9	4.0	1.8	1.2	3.2	5.9	25.8	23.8
20	Food and kindred products.....	.6	2.8	1.3	2.6	.2	7.2	14.3	27.1	17.9
201	Meat, poultry, and small game; fresh, chilled or frozen.....	.7	.6	.1	-	-	.2	-	27.6	16.0
204	Grain mill products.....	.9	1.3	1.0	.5	-	6.7	6.9	23.2	27.1
207	Confectionery and related products....	.2	.8	.1	.9	.8	13.5	43.0	15.2	14.4
20711	Candy (bars, bulk, packaged).....	.2	.7	.1	.9	.8	15.3	48.5	14.8	10.2
209	Miscellaneous food preparations and kindred products.....	.8	4.0	2.0	8.1	-	.1	3.7	38.3	14.0
23	Apparel, including knit apparel, and other finished textile products.....	.1	5.0	.5	1.8	3.9	5.2	7.4	20.6	35.2
25	Furniture and fixtures.....	-	.1	.3	.1	.4	4.6	1.5	54.9	7.1
251	Household and office furniture.....	-	.5	.6	.3	1.4	20.7	5.8	20.1	21.8
26	Pulp, paper, and allied products.....	1.2	.7	.6	1.6	2.6	3.6	6.3	24.7	28.0
265	Containers, boxes, and related products, paperboard, fiberboard, and pulpboard.....	.8	.7	-	2.1	2.4	.1	4.1	28.3	24.6
26511	Containers and boxes, paperboard, fiberboard, and pulpboard.....	.8	.8	.1	2.0	2.7	-	3.3	29.0	20.5
28	Chemicals and allied products.....	1.4	.7	.5	1.2	.2	2.1	2.1	27.7	29.8
281	Industrial chemicals.....	.3	1.1	.7	1.0	-	5.8	2.7	22.9	32.1
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	6.5	.9	.7	4.4	.6	2.1	4.4	48.7	9.6
2841	Soap and other detergents (except specialty cleansers).....	9.4	-	-	5.4	-	1.4	.1	54.5	8.3
285	Paints, varnishes, lacquers, enamels, and allied products.....	.7	1.0	.6	.4	-	.8	3.0	47.6	18.4
28511	Paints, varnishes, lacquers, enamels, and shellacs.....	.5	1.0	.7	.3	-	.4	.9	48.8	19.8
29	Petroleum and coal products.....	-	-	1.6	.1	-	1.3	.2	24.1	18.6
291	Products of petroleum refining.....	-	-	2.0	-	-	1.6	.3	24.0	14.7
295	Paving and roofing materials.....	-	-	-	1.0	-	-	-	20.5	30.9
30	Rubber and miscellaneous plastics products.....	.2	6.5	.3	.6	.3	3.4	4.5	31.3	12.8
306	Miscellaneous fabricated rubber products.....	2.0	7.9	.3	.3	-	.9	8.6	30.6	5.7
32	Stone, clay, and glass products.....	.9	.2	.3	.1	.2	.1	1.5	15.8	45.8
329	Abrasives, asbestos, and miscellaneous nonmetallic mineral products.....	2.2	.5	1.4	.3	.7	.3	6.0	16.7	16.3
33	Primary metal products.....	.1	.6	12.4	3.4	2.8	1.3	3.2	23.2	24.2
331	Steel works and rolling mill products..	.2	.1	13.5	3.7	2.9	.7	2.4	24.0	23.4
3312	Primary iron and steel products (except coke-oven products).....	.2	.1	12.8	3.9	3.2	.8	2.7	25.1	20.1
33123	Sheet and strip, iron and steel (except tin mill products).....	.8	-	-	4.4	-	.3	6.9	30.2	23.1
33124	Bars, bar shapes, and rods.....	-	-	23.9	4.7	-	1.4	-	21.0	22.1
335	Nonferrous metal basic shapes.....	.1	7.5	2.4	-	2.9	11.3	16.2	9.1	37.9
336	Nonferrous and nonferrous base alloy castings.....	.1	-	2.7	.2	.3	.8	1.9	21.9	11.3
3361	Aluminum and aluminum base alloy castings.....	-	-	4.8	-	-	.5	3.5	16.7	5.7
339	Miscellaneous primary metal products..	-	3.5	1.0	-	.8	1.1	3.0	34.8	24.8
3391	Iron and steel forgings.....	-	5.7	1.6	-	1.3	-	3.2	40.0	15.1

See footnotes at end of table.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**—Continued

TCC code	Commodity	Ton-miles (millions)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5	6	7	8
34	Fabricated metal products.....	1,637	100.0	1.0	0.3	1.8	2.1	0.9	0.7	0.1	0.8
342	Cutlery, hand tools, and general hardware.....	107	100.0	1.3	.9	3.9	.6	1.5	.6	.1	.2
3429	Miscellaneous hardware.....	13	100.0	1.0	.7	7.8	.6	4.2	3.5	-	.2
344	Structural and miscellaneous metal products.....	838	100.0	.9	-	.6	.9	.5	.7	-	.3
3441	Structural metal products.....	786	100.0	1.0	-	.6	1.0	.3	.8	-	-
346	Metal stampings.....	164	100.0	1.8	.1	1.8	8.2	2.4	.6	-	-
349	Miscellaneous fabricated metal products.....	161	100.0	.6	.5	7.5	3.8	1.6	1.5	.2	.2
3494	Valves and pipe fittings (except plumbers' brass goods and fittings)..	74	100.0	.6	1.0	15.4	7.1	1.1	.3	.5	.4
35	Machinery, except electrical.....	742	100.0	2.9	.4	8.5	3.2	3.5	1.5	.2	.2
353	Construction, mining, and materials handling machinery and equipment....	272	100.0	6.4	.1	12.5	3.3	.9	2.3	.2	-
3531	Construction machinery and equipment..	182	100.0	1.1	-	17.8	.5	.6	3.3	.2	-
354	Metalworking machinery and equipment..	112	100.0	.4	1.3	7.4	3.9	15.0	3.7	-	-
3548	Metalworking machinery (except machine tools).....	51	100.0	.4	2.8	6.6	8.5	.3	8.0	-	-
35482	Power driven hand tools, parts, and accessories.....	28	100.0	.6	5.1	12.0	8.8	.5	.1	-	-
355	Special industry machinery (except metalworking machinery).....	14	100.0	1.3	.4	7.0	.5	3.8	.7	5.1	.1
356	General industrial machinery and equipment.....	95	100.0	1.7	.4	8.2	3.3	2.5	.1	.4	.7
3561	Pumps, air and gas compressors, and measuring and dispensing pumps, also pumping equipment.....	17	100.0	.5	.8	30.0	.6	.6	.7	.4	-
3566	Mechanical power transmission equipment, except ball and roller bearings	62	100.0	2.5	.4	3.9	4.8	3.6	-	-	1.1
358	Service industry machines.....	62	100.0	1.4	-	4.8	6.1	4.1	-	-	.1
359	Miscellaneous machinery and parts (except electrical).....	61	100.0	1.7	1.5	8.6	.8	1.3	.5	-	.1
35999	Machinery and parts, n.e.c. (except electrical).....	60	100.0	1.7	1.5	8.7	.8	1.3	.5	-	.1
36	Electrical machinery and equipment....	502	100.0	5.6	2.0	4.3	4.2	3.7	1.5	.3	.1
361	Electrical transmission and distribution equipment.....	53	100.0	6.4	.1	2.2	2.7	5.9	.1	3.0	.1
3612	Power, distribution, and specialty transformers.....	34	100.0	8.7	.2	2.2	1.1	8.4	-	4.6	-
362	Electrical industrial apparatus.....	6	100.0	1.4	2.4	4.5	4.8	1.4	1.9	.1	-
363	Household appliances.....	126	100.0	4.5	2.2	2.7	5.4	6.1	.2	-	.1
3634	Electric housewares and fans.....	30	100.0	4.4	.7	7.5	3.3	1.7	1.0	-	-
364	Electric lighting and wiring equipment.....	60	100.0	1.2	2.7	1.6	2.2	1.1	.5	.2	-
3642	Lighting fixtures.....	34	100.0	1.9	4.5	1.5	1.5	.9	.3	.2	-
3643	Current carrying wiring devices (including lightning rods).....	5	100.0	1.2	.7	1.9	10.0	4.0	4.0	.8	-
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records.....	200	100.0	8.9	2.6	7.1	4.4	3.1	.9	-	.1
36511	Household and automotive radios, radio-phonograph combinations and phonographs.....	120	100.0	6.0	1.5	7.4	3.7	2.1	1.4	-	.2

See footnotes at end of table.

TABLE 5. Ton-Miles of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15 ²	16	17	18
34	Fabricated metal products.....	1.1	0.6	1.0	0.3	5.0	0.7	1.0	0.6	2.4	2.4
342	Cutlery, hand tools, and general hardware.....	1.5	1.1	1.2	.4	1.4	.3	.2	.2	.4	.5
3429	Miscellaneous hardware.....	.1	8.8	1.0	.5	1.7	-	.7	.6	.2	.6
344	Structural and miscellaneous metal products.....	-	.1	.9	.1	1.4	.1	1.2	.7	3.1	3.6
3441	Structural metal products.....	-	.1	1.0	-	1.5	.1	1.2	.8	3.1	3.8
346	Metal stampings.....	.3	2.8	1.0	.2	1.3	1.5	.2	.4	.5	1.2
349	Miscellaneous fabricated metal products.....	3.0	2.0	1.1	.3	2.1	.2	2.3	.4	.3	.9
3494	Valves and pipe fittings (except plumbers' brass goods and fittings)..	6.5	1.2	1.8	.6	1.5	.3	1.1	.1	.5	.4
35	Machinery, except electrical.....	.7	1.0	1.2	.9	5.5	.6	.8	.4	.8	.9
353	Construction, mining, and materials handling machinery and equipment....	.6	1.5	.3	.5	1.8	.2	.2	.1	.3	.3
3531	Construction machinery and equipment..	.9	-	.3	.1	2.4	.2	.3	.1	.4	.3
354	Metalworking machinery and equipment..	.2	.9	1.0	1.3	19.8	.6	2.7	.3	.4	.5
3548	Metalworking machinery (except machine tools).....	.5	.7	.5	2.8	1.1	.2	.3	.2	.7	.9
35482	Power driven hand tools, parts, and accessories.....	.8	1.2	.8	5.0	1.9	.2	-	.3	1.2	1.6
355	Special industry machinery (except metalworking machinery).....	.2	.5	1.0	.1	1.9	1.5	.3	.2	2.7	.7
356	General industrial machinery and equipment.....	1.2	.3	2.6	1.5	1.1	.7	.2	2.	.7	4.1
3561	Pumps, air and gas compressors, and measuring and dispensing pumps, also pumping equipment.....	.1	.6	4.3	1.3	.9	.5	.4	.5	.1	.7
3566	Mechanical power transmission equipment, except ball and roller bearings..	1.9	.3	2.7	1.7	1.3	.4	.1	.2	.8	6.1
358	Service industry machines.....	.1	.6	2.6	.8	5.0	1.6	.8	-	3.8	.4
359	Miscellaneous machinery and parts (except electrical).....	.1	1.8	3.2	1.2	6.9	.8	1.9	.2	.3	.7
35999	Machinery and parts, n.e.c. (except electrical).....	.1	1.8	2.6	1.2	7.0	.8	1.9	.2	.3	.7
36	Electrical machinery and equipment....	.8	1.0	1.2	1.3	1.3	.8	.4	.2	1.7	.8
361	Electrical transmission and distribution equipment.....	1.5	4.6	1.3	1.5	2.1	1.9	.5	.8	.8	.5
3612	Power, distribution, and specialty transformers.....	.2	7.2	1.1	.2	.9	2.0	.7	1.1	.8	.2
362	Electrical industrial apparatus.....	.6	1.6	.7	.7	1.9	.3	2.3	.3	1.0	.4
363	Household appliances.....	-	.3	.9	2.2	.8	.9	.1	.2	1.3	.6
3634	Electric housewares and fans.....	-	.3	2.3	.1	1.8	.3	.2	.3	1.6	.5
364	Electric lighting and wiring equipment.....	2.6	1.9	1.0	.1	1.7	.2	.3	.2	9.1	.7
3642	Lighting fixtures.....	4.4	2.7	.6	.1	2.3	.1	.4	-	14.6	.1
3643	Current carrying wiring devices (including lightning rods).....	.3	.6	1.6	.1	1.5	.3	.6	1.6	.7	.2
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records.....	.6	.3	1.5	1.4	1.5	.5	.3	.1	.2	1.4
36511	Household and automotive radios, radio-phonograph combinations and phonographs.....	.7	.5	1.2	.1	2.1	.2	.2	.2	-	.9

See footnotes at end of table.

TABLE 5. Ton-Miles of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued								
		19	20	21	22	23	24	25	30	50
34	Fabricated metal products.....	1.6	6.3	3.8	1.8	1.4	3.7	9.9	30.3	18.4
342	Cutlery, hand tools, and general hardware.....	.2	3.1	2.4	1.0	1.0	18.3	31.8	11.5	14.4
3429	Miscellaneous hardware.....	.4	1.7	.4	2.3	.6	4.6	11.2	26.1	20.5
344	Structural and miscellaneous metal products.....	.9	9.2	3.9	1.6	.1	1.2	13.2	33.4	21.4
3441	Structural metal products.....	.9	9.3	4.1	1.7	.1	1.0	13.4	32.9	21.3
346	Metal stampings.....	4.5	7.0	5.9	.9	.4	9.0	2.4	25.0	20.6
349	Miscellaneous fabricated metal products.....	3.1	2.4	8.0	.5	.5	5.2	4.6	35.4	11.8
3494	Valves and pipe fittings (except plumbers' brass goods and fittings)..	.4	5.0	17.2	.4	.8	10.9	7.0	10.9	7.0
35	Machinery, except electrical.....	1.4	2.6	.8	1.4	1.6	5.3	4.7	24.7	24.3
353	Construction, mining, and materials handling machinery and equipment....	2.6	.5	.3	1.8	1.7	10.6	2.9	28.5	19.6
3531	Construction machinery and equipment..	2.3	.8	.3	2.6	2.2	15.7	2.8	23.0	21.8
354	Metalworking machinery and equipment..	.4	.5	.5	.3	2.6	2.7	8.5	19.4	5.7
3548	Metalworking machinery (except machine tools).....	.8	1.1	1.0	.5	5.7	4.9	16.3	30.0	5.2
35482	Power driven hand tools, parts, and accessories.....	1.4	1.9	1.8	1.0	2.6	8.9	11.7	21.6	9.0
355	Special industry machinery (except metalworking machinery).....	1.4	3.5	2.6	.2	1.1	1.0	5.2	37.0	20.0
356	General industrial machinery and equipment.....	1.5	1.0	.6	.1	2.2	.6	8.4	19.5	36.2
3561	Pumps, air and gas compressors, and measuring and dispensing pumps, also pumping equipment.....	7.3	.4	1.3	.3	.4	1.7	18.6	12.4	14.6
3566	Mechanical power transmission equipment, except ball and roller bearings..	.3	1.4	-	-	3.3	.4	7.7	11.4	43.7
358	Service industry machines.....	.9	4.6	1.6	6.9	.2	3.2	.8	29.6	20.0
359	Miscellaneous machinery and parts (except electrical).....	.3	.5	.4	1.0	2.5	5.8	7.5	21.2	29.2
35999	Machinery and parts, n.e.c. (except electrical).....	.3	.5	.4	1.0	2.6	5.9	7.5	21.2	29.4
36	Electrical machinery and equipment....	1.6	3.1	.8	.5	3.5	8.8	10.6	30.1	9.8
361	Electrical transmission and distribution equipment.....	.4	2.0	.5	.2	.4	7.8	20.2	17.2	15.3
3612	Power, distribution, and specialty transformers.....	.1	.4	.4	.3	.5	7.7	25.0	18.5	7.5
362	Electrical industrial apparatus.....	-	1.1	2.3	-	6.4	2.5	7.3	22.0	32.1
363	Household appliances.....	1.9	2.2	.1	1.5	5.1	16.1	11.2	24.9	8.5
3634	Electric housewares and fans.....	.6	.7	.5	.4	11.2	28.1	6.6	21.2	4.7
364	Electric lighting and wiring equipment	1.0	1.1	2.3	.5	7.4	2.6	2.5	42.8	12.5
3642	Lighting fixtures.....	.1	.8	2.7	.6	.6	1.9	1.8	46.4	9.0
3643	Current carrying wiring devices (including lightning rods).....	.1	.4	9.2	.9	3.8	4.2	14.6	22.2	14.5
365	Radio and television receiving sets (except communications types), phonographs, and phonograph records...	2.4	5.3	.8	.1	2.1	5.0	11.2	33.1	5.1
36511	Household and automotive radios, radio-phonograph combinations and phonographs.....	2.1	8.1	1.4	.1	2.3	8.1	15.4	31.2	2.9

See footnotes at end of table.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**—Continued

TCC code	Commodity	Ton-miles (millions)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5	6	7	8
366	Communication equipment.....	36	100.0	0.7	0.2	1.0	3.6	1.1	14.0	-	0.1
3661	Telephone and telegraph equipment.....	32	100.0	.6	.1	.6	3.9	1.1	15.5	-	.1
367	Electronic components or accessories..	7	100.0	1.0	.9	2.4	16.4	.3	.1	-	-
3679	Miscellaneous electronic components and accessories.....	3	100.0	2.2	2.1	2.3	8.0	.8	.2	-	-
369	Miscellaneous electrical machinery, equipment, and supplies.....	12	100.0	.9	-	8.7	-	1.0	.3	-	-
37	Transportation equipment.....	748	100.0	1.7	.1	2.7	3.6	.8	.6	0.1	-
371	Motor vehicles and motor vehicle equipment.....	664	100.0	1.9	.1	3.0	4.1	.9	.7	.1	.1
3714	Motor vehicle parts and accessories...	270	100.0	.5	.2	2.4	5.9	1.1	.1	.3	.1
37141	Motor vehicle parts (except gear frames and internal combustion engines).....	255	100.0	.5	.2	1.0	6.2	1.2	.1	.3	.1
38	Instruments, photographic goods, optical goods, watches, and clocks...	62	100.0	1.7	.2	7.6	1.8	1.1	.4	.4	.2
381	Engineering, laboratory, and scientific instruments.....	7	100.0	4.4	.6	5.1	4.0	1.4	1.0	-	-
382	Measuring, controlling, and indicating instruments.....	5	100.0	2.1	.4	18.2	2.5	3.4	.5	3.5	.9
3821	Mechanical measuring and controlling instruments (except automatic temperature controls).....	4	100.0	1.7	.4	21.1	2.7	1.3	.4	4.2	1.0
384	Surgical, medical, and dental instruments and supplies.....	23	100.0	.3	-	5.1	1.8	-	-	-	.1
386	Photographic equipment and supplies...	23	100.0	2.5	.2	6.5	.8	1.5	.5	.4	.2
39	Miscellaneous products of manufacturing.....	54	100.0	3.5	.2	19.4	2.4	4.3	.2	-	1.5
399	Miscellaneous manufactured products...	43	100.0	2.0	.2	13.9	3.0	5.0	.3	-	1.9
3999	Manufactured products, n.e.c.....	41	100.0	2.1	.2	14.5	3.2	5.2	.3	-	2.0

See footnotes at end of table.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15 ²	16	17	18
366	Communication equipment.....	0.1	0.1	1.1	-	0.3	1.2	-	0.1	0.6	0.1
3661	Telephone and telegraph equipment.....	.1	.1	1.1	-	.2	1.3	-	.1	.7	.1
367	Electronic components or accessories..	3.3	.6	.2	0.1	.3	-	10.2	-	4.2	-
3679	Miscellaneous electronic components and accessories.....	7.4	1.3	.3	.2	.7	.1	2.2	-	.5	-
369	Miscellaneous electrical machinery, equipment, and supplies.....	.7	.4	.3	.1	.3	.1	.1	-	.1	-
37	Transportation equipment.....	.1	.2	1.5	.1	5.6	.3	.3	1.3	2.2	2.0
371	Motor vehicles and motor vehicle equipment.....	.1	.2	1.7	.1	6.2	.3	.2	1.5	2.3	1.7
3714	Motor vehicle parts and accessories...	.2	.4	.5	.2	4.1	.5	.1	-	4.1	.2
37141	Motor vehicle parts (except gear frames and internal combustion engines).....	.2	.4	.5	.2	4.3	.6	.1	-	4.2	.1
38	Instruments, photographic goods, optical goods, watches, and clocks...	.4	1.8	3.0	.6	2.2	1.5	.7	.6	1.4	1.2
381	Engineering, laboratory, and scientific instruments.....	.4	.4	2.0	.5	2.6	.1	.3	.1	.3	1.1
382	Measuring, controlling, and indicating instruments.....	.6	4.0	1.2	1.5	1.8	.3	.1	.4	1.7	2.0
3821	Mechanical measuring and controlling instruments (except automatic temperature controls).....	.6	4.4	1.0	1.7	1.3	.3	.1	.5	1.7	2.1
384	Surgical, medical, and dental instruments and supplies.....	-	-	2.2	.2	2.6	3.2	.4	1.3	1.3	1.1
386	Photographic equipment and supplies...	.8	3.6	4.3	.8	1.0	.5	1.4	.2	1.8	1.0
39	Miscellaneous products of manufacturing.....	.1	7.4	.4	.2	.9	2.4	.3	1.0	.2	.1
399	Miscellaneous manufactured products...	-	9.2	.4	.1	.5	3.0	.4	1.3	.3	.2
3999	Manufactured products, n.e.c.....	-	9.0	.4	.2	.5	2.7	.4	.1	.3	.2

See footnotes at end of table.

TABLE 5. Ton-Miles of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued								
		19	20	21	22	23	24	25	30	50
366	Communication equipment.....	0.2	0.5	0.1	0.1	0.5	20.3	5.0	30.5	18.5
3661	Telephone and telegraph equipment.....	.1	.3	-	.1	.2	22.1	3.8	30.9	16.9
367	Electronic components or accessories..	-	1.5	1.3	-	.1	.8	3.7	15.9	36.7
3679	Miscellaneous electronic components and accessories.....	-	3.3	2.9	.1	.3	1.7	5.7	32.3	25.4
369	Miscellaneous electrical machinery, equipment, and supplies.....	1.2	.4	.5	-	12.0	6.0	15.7	36.5	14.7
37	Transportation equipment.....	1.5	3.9	.1	.5	1.0	4.7	15.5	16.3	33.3
371	Motor vehicles and motor vehicle equipment.....	1.7	4.4	.1	.6	.7	5.3	17.2	11.3	33.5
3714	Motor vehicle parts and accessories...	1.9	.6	.2	.1	.5	3.7	.4	11.4	60.3
37141	Motor vehicle parts (except gear frames and internal combustion engines).....	2.0	.5	.2	.1	.3	3.9	.5	8.6	63.7
38	Instruments, photographic goods, optical goods, watches, and clocks...	1.9	3.0	.7	3.2	3.5	5.7	8.0	29.8	17.4
381	Engineering, laboratory, and scientific instruments.....	5.3	.8	1.6	.4	8.0	6.6	26.8	12.1	14.1
382	Measuring, controlling, and indicating instruments.....	.4	.6	2.6	2.4	4.9	6.8	10.3	17.0	9.9
3821	Mechanical measuring and controlling instruments (except automatic temperature controls).....	.2	.2	3.0	2.6	5.9	8.1	7.5	16.6	9.4
384	Surgical, medical, and dental instruments and supplies.....	.2	-	.1	7.2	.1	.1	1.6	43.7	27.4
386	Photographic equipment and supplies...	3.1	7.5	.3	.6	5.2	11.4	8.5	24.6	10.8
39	Miscellaneous products of manufacturing.....	.5	.5	1.8	.1	.6	4.3	11.3	22.1	14.3
399	Miscellaneous manufactured products...	.5	.6	.4	.1	.7	4.0	11.2	24.7	16.1
3999	Manufactured products, n.e.c.....	.6	.6	.4	.2	.7	4.2	11.7	25.4	14.9

¹See description of production areas on page 313.²Includes only those shipments that originated in one city in this area and terminated in another city in this area.

Production Area 16

Production Area 16 consists of three standard metropolitan statistical areas: Milwaukee, Wis.; Kenosha, Wis.; and Racine, Wis.

Data are based on 116 plants from which 14,230 shipping documents were sampled. The sampling variability on the estimated 8.5 million tons shipped from Production Area 16 is \pm 21.7 percent.

Major commodity groups shipped from Production Area 16 and their area of destinations are summarized in table A below.

Table A.—DISTRIBUTION OF TONS OF COMMODITIES SHIPPED FROM PRODUCTION AREA 16,
BY AREA OF DESTINATION

TCC code	Commodity class	Total tons (thousands)	Percent distribution by destination area			
			Production Area 16 ¹	Other produc- tion areas	Other SMSA's	Balance of country
	Total.....	28,520	2.6	37.8	23.2	36.4
20	Food and kindred products.....	2,515	1.8	42.6	25.9	29.7
28	Chemicals and allied products.....	271	2.7	59.4	22.9	15.0
34	Fabricated metal products.....	365	4.9	31.7	32.4	31.0
35	Machinery, except electrical.....	723	4.5	29.9	22.4	43.2
36	Electrical machinery and equipment.....	322	2.5	58.7	20.6	18.2
38	Instruments, photographic goods, optical goods, watches, and clocks.....	11	.2	60.3	27.6	11.9

¹Includes only those shipments that originated in one city in this area and terminated in another city in this area.

²Includes commodity classes not shown separately.

TABLE 1. Tons of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by means of transport								Sampling variability code ¹
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Un-known	
	Total.....	8,520	100.0	53.8	31.2	12.9	0.4	0.4	1.2	0.1	
20	Food and kindred products.....	2,515	100.0	33.6	32.4	34.0	-	-	-	-	b
208	Beverages and flavoring extracts....	2,015	100.0	38.3	23.2	38.5	-	-	-	-	a
28	Chemicals and allied products.....	271	100.0	43.2	53.6	2.9	-	-	.3	-	d
332*	Iron and steel castings.....	167	100.0	10.7	81.6	7.7	-	-	-	-	c
336	Nonferrous and nonferrous base alloy castings.....	52	100.0	-	85.0	13.7	-	-	1.3	-	e
34	Fabricated metal products.....	365	100.0	50.5	42.3	4.4	.1	-	2.7	-	d
342	Cutlery, hand tools, and general hardware.....	24	100.0	.9	68.2	1.2	.1	.5	29.1	-	e
35	Machinery, except electrical.....	723	100.0	35.2	52.6	7.3	.6	-	2.9	1.4	b
351	Engines and turbines.....	175	100.0	11.1	69.1	16.4	.2	-	3.2	-	c
359	Miscellaneous machinery and parts (except electrical).....	43	100.0	9.8	73.8	3.8	1.2	-	11.4	-	d
36	Electrical machinery and equipment..	322	100.0	27.7	41.7	6.4	10.2	-	14.0	-	d
362	Electrical industrial apparatus.....	124	100.0	5.6	55.1	.7	26.2	-	12.4	-	c
3622	Industrial controls and parts.....	75	100.0	1.0	42.3	.1	42.7	-	13.9	-	d
38	Instruments, photographic goods, optical goods, watches, and clocks.	11	100.0	.8	83.8	.3	2.2	.1	12.6	.2	b

*TCC 33 not shown.

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 2. Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Ton-miles (millions)	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Un-known
	Total.....	4,441	100.0	72.6	18.6	5.7	0.6	0.7	1.7	0.1
20	Food and kindred products.....	1,098	100.0	62.2	20.2	17.6	-	-	-	-
208	Beverages and flavoring extracts.....	876	100.0	69.2	10.1	20.7	-	-	-	-
28	Chemicals and allied products.....	128	100.0	72.1	27.0	.5	-	-	.4	-
332*	Iron and steel castings.....	30	100.0	22.6	72.5	4.9	-	-	-	-
336	Nonferrous and nonferrous base alloy castings.....	9	100.0	-	92.9	2.8	-	-	4.3	-
34	Fabricated metal products.....	213	100.0	72.2	22.8	.4	.1	.1	4.4	-
342	Cutlery, hand tools, and general hardware..	17	100.0	.8	52.1	.1	.1	1.4	45.5	-
35	Machinery, except electrical.....	415	100.0	48.0	41.5	4.3	.7	-	4.4	1.1
351	Engines and turbines.....	94	100.0	23.0	57.3	13.8	.2	-	5.7	-
359	Miscellaneous machinery and parts (except electrical).....	27	100.0	20.9	69.1	.2	2.3	-	7.5	-
36	Electrical machinery and equipment.....	219	100.0	36.4	24.4	12.2	11.4	-	15.6	-
362	Electrical industrial apparatus.....	70	100.0	7.5	40.6	.1	35.5	-	16.3	-
3622	Industrial controls and parts.....	48	100.0	1.4	31.7	-	50.5	-	16.4	-
38	Instruments, photographic goods, optical goods, watches, and clocks.....	6	100.0	.2	73.9	.5	3.4	.1	21.5	.4

*TCC 33 not shown.

TABLE 3. Tons of Shipments—Distance and Commodity:
1963

TCC code	Commodity	Tons (thous.)	Percent distribution by distance of shipment								Sampling variability code ¹
			All distances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over	
	Total.....	8,520	100.0	16.7	8.2	15.0	17.8	30.8	7.7	3.8	
20	Food and kindred products.....	2,515	100.0	20.2	11.8	16.9	16.0	28.5	3.4	3.2	b
208	Beverages and flavoring extracts....	2,015	100.0	17.6	13.6	18.1	14.1	30.6	3.7	2.3	a
28	Chemicals and allied products.....	271	100.0	22.3	7.5	19.8	12.3	30.1	.1	7.9	d
332*	Iron and steel castings.....	167	100.0	52.6	12.7	16.6	12.2	5.9	-	-	c
336	Nonferrous and nonferrous base alloy castings.....	52	100.0	33.6	17.5	37.6	6.7	4.2	-	.4	e
34	Fabricated metal products.....	365	100.0	21.3	10.7	15.6	10.0	12.1	25.6	4.7	d
342	Cutlery, hand tools, and general hardware.....	24	100.0	13.4	2.0	19.6	9.1	35.6	7.0	13.3	e
35	Machinery, except electrical.....	723	100.0	11.8	5.7	12.1	23.9	29.7	11.4	5.4	b
351	Engines and turbines.....	175	100.0	16.3	3.0	12.3	26.9	31.0	2.5	8.0	c
359	Miscellaneous machinery and parts (except electrical).....	43	100.0	15.2	5.7	15.0	16.2	29.4	5.4	13.1	d
36	Electrical machinery and equipment...	322	100.0	12.3	5.3	8.6	8.1	47.6	8.6	9.5	d
362	Electrical industrial apparatus.....	124	100.0	14.4	9.3	6.9	8.5	55.9	1.9	3.1	c
3622	Industrial controls and parts.....	75	100.0	12.8	1.8	4.6	8.1	67.2	1.7	3.8	d
38	Instruments, photographic goods, optical goods, watches, and clocks..	11	100.0	24.2	3.7	11.1	7.1	42.5	4.7	6.7	b

*TCC 33 not shown.

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5	6	7	8
	Total.....	8,520	100.0	0.8	0.5	2.8	0.8	1.1	0.3	0.1	0.2
20	Food and kindred products.....	2,515	100.0	1.1	.8	1.5	.7	1.1	.2	.2	.4
208	Beverages and flavoring extracts....	2,015	100.0	.5	1.0	1.3	.4	1.1	-	.2	-
28	Chemicals and allied products.....	271	100.0	2.9	-	3.3	.2	2.1	3.0	-	-
332 *	Iron and steel castings.....	167	100.0	-	2.2	-	-	2.3	-	-	-
336	Nonferrous and nonferrous base alloy castings.....	52	100.0	-	.3	1.2	.1	-	-	-	-
34	Fabricated metal products.....	365	100.0	.3	.7	2.1	.3	.6	.1	-	.3
342	Cutlery, hand tools, and general hardware.....	24	100.0	3.3	-	3.0	2.9	7.3	1.0	-	.8
35	Machinery, except electrical.....	723	100.0	1.5	.8	7.6	.6	.8	.1	.1	.1
351	Engines and turbines.....	175	100.0	4.3	.1	4.8	.7	.2	.1	-	.6
359	Miscellaneous machinery and parts (except electrical).....	43	100.0	.1	.2	4.0	.3	2.2	.1	.4	.1
36	Electrical machinery and equipment...	322	100.0	1.8	.3	21.0	2.6	1.9	1.4	.2	.1
362	Electrical industrial apparatus.....	124	100.0	1.9	.7	30.4	.7	1.8	3.4	.4	.2
3622	Industrial controls and parts.....	75	100.0	1.0	.3	44.5	.9	.7	4.1	.3	-
38	Instruments, photographic goods, optical goods, watches, and clocks..	11	100.0	1.8	3.0	2.8	.3	4.0	.1	-	.2

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15	16 ²	17	18
	Total.....	0.1	0.7	1.0	0.3	8.0	2.8	10.5	2.6	0.7	0.9
20	Food and kindred products.....	-	2.0	1.8	.6	7.4	2.9	15.3	1.8	.8	1.0
208	Beverages and flavoring extracts.....	-	1.8	2.0	.7	8.0	.4	12.3	2.2	.7	1.2
28	Chemicals and allied products.....	.4	1.3	.6	.3	3.0	15.7	6.0	2.7	1.9	2.3
332*	Iron and steel castings.....	-	-	1.4	.1	2.2	1.5	32.7	12.4	-	.4
336	Nonferrous and nonferrous base alloy castings.....	.1	-	.4	.1	4.8	5.8	8.9	15.6	-	-
34	Fabricated metal products.....	.1	.4	.7	.6	3.9	.9	8.3	4.9	3.4	1.0
342	Cutlery, hand tools, and general hardware.....	1.2	.5	1.6	2.4	13.5	1.5	8.0	3.5	2.2	3.7
35	Machinery, except electrical.....	.7	.7	.7	.6	2.1	.9	4.6	4.5	.5	2.1
351	Engines and turbines.....	1.0	-	.2	.1	2.4	2.6	1.8	11.5	.6	-
359	Miscellaneous machinery and parts (except electrical).....	2.5	.1	.3	.6	1.9	.3	5.2	4.0	.1	.4
36	Electrical machinery and equipment....	.1	.3	1.0	.2	3.3	1.4	9.3	2.5	2.0	.1
362	Electrical industrial apparatus.....	.2	.8	2.4	.4	.8	2.9	10.6	5.3	1.4	.3
3622	Industrial controls and parts.....	.2	.3	1.8	.6	.9	4.1	7.4	4.6	1.6	.1
38	Instruments, photographic goods, optical goods, watches, and clocks...	.2	.2	1.4	.2	8.2	.7	17.2	.2	1.1	.3

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									Sampling vari- ability code ³
		19	20	21	22	23	24	25	30	50	
	Total.....	0.4	0.9	1.7	0.6	0.5	1.1	1.0	23.2	36.4	
20	Food and kindred products.....	-	.8	.4	1.5	.2	1.0	.9	25.9	29.7	
208	Beverages and flavoring extracts.....	-	1.0	.5	1.2	.2	1.0	.8	27.4	34.1	
28	Chemicals and allied products.....	4.6	2.4	-	1.4	1.7	1.9	4.4	22.9	15.0	
332*	Iron and steel castings.....	-	-	-	-	-	-	-	29.6	15.2	
336	Nonferrous and nonferrous base alloy castings.....	-	-	-	.3	-	-	.4	16.3	45.7	
34	Fabricated metal products.....	.3	.6	2.4	.1	3.0	.5	1.1	32.4	31.0	
342	Cutlery, hand tools, and general hardware.....	4.5	3.6	.6	1.6	1.4	5.2	6.0	15.7	5.0	
35	Machinery, except electrical.....	.4	.3	2.0	.1	.7	.7	1.2	22.4	43.2	
351	Engines and turbines.....	.4	.5	2.5	.1	2.2	.7	3.4	22.6	36.6	
359	Miscellaneous machinery and parts (except electrical).....	.1	.2	1.8	-	.1	.5	.8	25.4	48.3	
36	Electrical machinery and equipment....	1.9	4.6	2.1	.1	1.8	.4	.8	20.6	18.2	
362	Electrical industrial apparatus.....	1.8	4.6	.4	.2	.5	.8	1.2	12.3	13.6	
3622	Industrial controls and parts.....	2.9	7.4	.3	.1	.3	1.2	1.4	7.2	5.8	
38	Instruments, photographic goods, optical goods, watches, and clocks...	12.0	.8	.7	.8	.2	1.0	3.1	27.6	11.9	

*TCC 33 not shown.

¹See description of production areas on page 313.²Includes only those shipments that originated in one city in this area and terminated in another city in this area.³Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**

TCC code	Commodity	Ton-miles (millions)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5	6	7	8
	Total.....	4,441	100.0	1.4	0.8	3.9	1.1	1.4	0.4	0.1	0.2
20	Food and kindred products.....	1,098	100.0	2.1	1.5	2.5	1.2	1.7	.3	.2	.6
208	Beverages and flavoring extracts.....	876	100.0	1.0	1.7	2.2	.7	1.7	-	.3	-
28	Chemicals and allied products.....	128	100.0	5.1	-	5.1	.3	3.0	4.0	-	-
332*	Iron and steel castings.....	30	100.0	-	9.5	-	-	8.8	-	-	-
336	Nonferrous and nonferrous base alloy castings.....	9	100.0	-	1.1	4.8	.5	-	-	-	-
34	Fabricated metal products.....	213	100.0	.4	.9	2.6	.4	.7	.1	-	.3
342	Cutlery, hand tools, and general hardware.....	17	100.0	4.0	-	3.2	3.1	7.4	.9	-	.7
35	Machinery, except electrical.....	415	100.0	2.3	1.0	9.6	.8	1.0	.1	.1	.2
351	Engines and turbines.....	94	100.0	6.8	.1	6.5	1.0	.3	.2	-	.7
359	Miscellaneous machinery and parts (except electrical).....	27	100.0	.1	.2	4.6	.3	2.4	.1	.4	.1
36	Electrical machinery and equipment....	219	100.0	2.2	.4	22.8	2.8	2.0	1.3	.2	.1
362	Electrical industrial apparatus.....	70	100.0	2.8	.9	41.0	.8	2.3	3.9	.5	.2
3622	Industrial controls and parts.....	48	100.0	1.3	.4	52.6	1.0	.8	4.0	.3	-
38	Instruments, photographic goods, optical goods, watches, and clocks...	6	100.0	2.7	4.2	3.8	.4	5.0	.1	-	.2

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15	16 ²	17	18
	Total.....	0.1	0.7	0.7	0.2	3.7	1.6	1.6	0.1	0.4	0.6
20	Food and kindred products.....	-	2.1	1.4	.6	4.1	2.1	2.8	.1	.6	.8
208	Beverages and flavoring extracts.....	-	2.0	1.6	.8	4.4	.3	2.3	.1	.5	.9
28	Chemicals and allied products.....	.5	1.2	.4	.3	1.6	9.6	.9	.2	1.2	1.5
332*	Iron and steel castings.....	-	-	3.0	.4	3.3	2.6	14.4	1.7	-	.8
336	Nonferrous and nonferrous base alloy castings.....	.2	.1	.8	.2	6.9	10.3	4.5	1.6	-	-
34	Fabricated metal products.....	.2	.4	.4	.4	1.6	.5	1.2	.2	1.8	.5
342	Cutlery, hand tools, and general hardware.....	1.1	.3	.8	1.5	4.6	.6	.8	.1	1.0	1.6
35	Machinery, except electrical.....	.8	.6	.5	.5	.9	.5	.6	.2	.2	1.2
351	Engines and turbines.....	1.3	-	.1	.1	1.1	1.5	.3	.5	.3	-
359	Miscellaneous machinery and parts (except electrical).....	2.4	.1	.2	.4	.8	.2	.7	.1	-	.2
36	Electrical machinery and equipment....	.1	.2	.5	.1	1.2	.6	1.1	.1	.9	.1
362	Electrical industrial apparatus.....	.2	.7	1.4	.3	.3	1.6	1.6	.3	.7	.2
3622	Industrial controls and parts.....	.2	.3	1.0	.4	.3	2.0	.9	.2	.7	-
38	Instruments, photographic goods, optical goods, watches, and clocks...	.2	.2	.9	.1	3.6	.4	1.7	-	.6	.1

See footnotes at end of table.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued								
		19	20	21	22	23	24	25	30	50
	Total.....	0.5	1.4	3.3	1.1	1.6	3.9	3.4	30.7	35.1
20	Food and kindred products.....	.1	1.6	1.0	3.2	.9	4.1	3.5	34.5	26.4
208	Beverages and flavoring extracts.....	-	2.0	1.2	2.5	.8	4.2	3.3	34.5	31.0
28	Chemicals and allied products.....	6.3	4.2	.1	2.6	6.0	7.4	16.1	17.8	4.6
332*	Iron and steel castings.....	-	-	-	-	-	-	-	36.0	19.5
336	Nonferrous and nonferrous base alloy castings.....	-	-	-	1.6	-	.1	3.6	13.7	50.0
34	Fabricated metal products.....	.4	.9	4.1	.2	8.6	1.5	3.1	57.8	10.8
342	Cutlery, hand tools, and general hardware.....	4.2	4.4	.8	2.1	3.5	13.9	15.4	20.1	3.9
35	Machinery, except electrical.....	.4	.4	3.4	.1	2.0	2.1	3.6	24.1	42.8
351	Engines and turbines.....	.5	.9	4.6	.1	6.8	2.5	10.9	20.4	32.5
359	Miscellaneous machinery and parts (except electrical).....	.2	.2	2.8	-	.2	1.4	2.3	18.4	61.2
36	Electrical machinery and equipment...	1.8	5.8	3.2	.2	4.5	1.0	1.9	29.9	15.0
362	Electrical industrial apparatus.....	2.1	6.9	.8	.3	1.4	2.7	3.6	11.5	11.0
3622	Industrial controls and parts.....	2.9	9.8	.4	.2	.7	3.3	3.8	6.7	5.8
38	Instruments, photographic goods, optical goods, watches, and clocks..	14.6	1.2	1.2	1.3	.7	3.2	9.6	32.4	11.6

*TCC 33 not shown.

¹See description of production areas on page 313.²Includes only those shipments that originated in one city in this area and terminated in another city in this area.

Production Area 17

Production Area 17 consists of one standard metropolitan statistical area: Minneapolis-St. Paul, Minn.

Data are based on 72 plants from which 8,693 shipping documents were sampled. The sampling variability on the estimated 12.1 million tons shipped from Production Area 17 is \pm 30.2 percent.

Major commodity groups shipped from Production Area 17 and their area of destinations are summarized in table A below.

Table A.—DISTRIBUTION OF TONS OF COMMODITIES SHIPPED FROM PRODUCTION AREA 17, BY AREA OF DESTINATION

TCC code	Commodity class	Total tons (thousands)	Percent distribution by destination area			
			Production Area 17 ¹	Other production areas	Other SMSA's	Balance of country
	Total.....	² 12,080	20.5	17.6	11.1	50.8
20	Food and kindred products.....	6,357	4.0	26.4	14.0	55.6
30	Rubber and miscellaneous plastics products....	32	1.9	45.2	2.4	50.5
34	Fabricated metal products.....	107	5.2	7.8	16.3	70.7
35	Machinery, except electrical.....	201	1.1	43.5	26.4	29.0
36	Electrical machinery and equipment.....	91	1.1	51.5	28.9	18.5

¹Includes only those shipments that originated in one city in this area and terminated in another city in this area.

²Includes commodity classes not shown separately.

TABLE 1. Tons of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by means of transport								Sampling variability code ¹
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown	
	Total.....	12,080	100.0	35.9	40.0	10.0	-	8.3	5.8	-	
20	Food and kindred products.....	6,357	100.0	56.7	36.8	6.5	-	-	-	-	e
30	Rubber and miscellaneous plastics products.....	32	100.0	13.0	86.5	-	0.1	-	.4	-	d
34	Fabricated metal products.....	107	100.0	41.4	45.5	12.4	.1	-	.5	0.1	c
35	Machinery, except electrical.....	201	100.0	27.5	65.9	2.1	.5	-	2.9	1.1	c
358	Service industry machines.....	96	100.0	15.6	76.3	1.2	.6	-	4.2	2.1	d
359	Miscellaneous machinery and parts (except electrical).....	23	100.0	38.0	55.1	1.4	1.0	-	3.8	.7	c
36	Electrical machinery and equipment...	91	100.0	29.2	53.1	12.8	1.2	-	3.7	-	e

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 2. **Ton-Miles of Shipments—Means of Transport and Commodity: 1963**

TCC code	Commodity	Ton-miles (millions)	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
	Total.....	2,997	100.0	58.4	32.1	5.9	0.1	2.4	1.0	0.1
20	Food and kindred products.....	1,948	100.0	73.5	22.1	4.3	-	-	.1	-
30	Rubber and miscellaneous plastics products.....	16	100.0	27.0	72.3	-	.2	-	.5	-
34	Fabricated metal products.....	31	100.0	41.5	45.6	11.2	.3	.1	1.2	.1
35	Machinery, except electrical.....	156	100.0	27.8	65.6	1.2	.5	-	3.6	1.3
358	Service industry machines.....	80	100.0	13.7	77.2	1.1	.6	-	5.1	2.3
359	Miscellaneous machinery and parts (except electrical).....	16	100.0	44.2	49.6	.4	1.0	-	3.9	.9
36	Electrical machinery and equipment.....	77	100.0	23.2	56.9	15.3	1.3	.1	3.2	-

TABLE 3. **Tons of Shipments—Distance and Commodity: 1963**

TCC code	Commodity	Tons (thous.)	Percent distribution by distance of shipment								Sampling variability code ¹
			All distances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over	
	Total.....	12,080	100.0	37.9	22.2	14.7	11.1	9.2	4.0	0.9	
20	Food and kindred products.....	6,357	100.0	21.2	23.4	21.7	16.0	12.5	4.5	.7	e
30	Rubber and miscellaneous plastics products.....	32	100.0	20.9	5.2	8.7	21.0	26.3	16.5	1.4	d
34	Fabricated metal products.....	107	100.0	30.6	17.5	16.3	20.8	10.3	4.3	.2	c
35	Machinery, except electrical.....	201	100.0	2.9	2.1	6.9	14.9	41.4	27.8	4.0	c
358	Service industry machines.....	96	100.0	.7	.2	4.6	13.0	45.1	31.6	4.8	d
359	Miscellaneous machinery and parts (except electrical).....	23	100.0	1.3	3.4	7.3	26.4	22.3	37.1	2.2	c
36	Electrical machinery and equipment...	91	100.0	2.9	.2	2.5	17.2	33.2	33.2	10.8	e

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5	6	7	8
	Total.....	12,080	100.0	0.7	0.1	1.8	0.4	0.2	-	0.5	-
20	Food and kindred products.....	6,357	100.0	1.2	.1	2.8	.5	.2	-	.9	-
30	Rubber and miscellaneous plastics products.....	32	100.0	4.5	1.9	8.6	.5	-	0.1	-	-
34	Fabricated metal products.....	107	100.0	-	-	1.7	.2	.1	-	-	-
35	Machinery, except electrical.....	201	100.0	1.7	3.5	6.9	3.4	1.9	-	.1	0.2
358	Service industry machines.....	96	100.0	1.1	6.9	11.2	.8	1.8	-	.2	-
359	Miscellaneous machinery and parts (except electrical).....	23	100.0	1.0	1.2	1.7	22.4	.5	.1	-	-
36	Electrical machinery and equipment....	91	100.0	1.5	.4	16.9	2.7	1.7	.1	.2	.9

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15	16	17 ²	18
	Total.....	-	1.7	0.3	0.2	1.1	0.2	5.7	2.4	20.5	0.5
20	Food and kindred products.....	-	2.9	.5	.4	1.8	.3	9.1	3.5	4.0	.8
30	Rubber and miscellaneous plastics products.....	-	4.1	-	-	4.2	-	9.0	1.9	1.9	2.6
34	Fabricated metal products.....	0.1	.1	.1	-	.1	.6	2.4	1.3	5.2	.4
35	Machinery, except electrical.....	.9	2.8	2.3	.4	1.8	2.4	3.8	.7	1.1	2.5
358	Service industry machines.....	.6	.7	3.8	.6	.7	4.9	1.5	.1	.2	3.5
359	Miscellaneous machinery and parts (except electrical).....	.2	1.6	.9	.2	2.8	.5	14.4	4.8	.9	7.2
36	Electrical machinery and equipment....	.3	.4	.6	1.7	1.9	.3	5.7	1.4	1.1	1.2

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									Sampling variability code ³
		19	20	21	22	23	24	25	30	50	
	Total.....	-	0.3	0.2	0.4	0.1	0.5	0.3	11.1	50.8	
20	Food and kindred products.....	-	.4	.1	.2	-	.5	.2	14.0	55.6	e
30	Rubber and miscellaneous plastics products.....	-	5.3	-	1.1	-	-	1.4	2.4	50.5	d
34	Fabricated metal products.....	-	.3	.1	.1	.1	-	.1	16.3	70.7	c
35	Machinery, except electrical.....	1.4	1.1	.1	1.5	.5	1.1	2.5	26.4	29.0	c
358	Service industry machines.....	.7	2.0	.1	.2	1.0	2.3	1.9	25.2	28.0	d
359	Miscellaneous machinery and parts (except electrical).....	.1	.2	.1	.7	-	.1	1.3	17.6	19.5	c
36	Electrical machinery and equipment....	-	1.3	1.4	.7	.8	3.7	5.7	28.9	18.5	e

¹See description of production areas on page 313.²Includes only those shipments that originated in one city in this area and terminated in another city in this area.³Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 5. Ton-Miles of Shipments—Production Area Destination and Commodity: 1963

TCC code	Commodity	Ton-miles (millions)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5	6	7	8
	Total.....	2,997	100.0	3.3	0.5	7.4	1.5	0.9	-	1.7	0.1
20	Food and kindred products.....	1,948	100.0	4.5	.3	9.1	1.7	.5	-	2.6	-
30	Rubber and miscellaneous plastics products.....	16	100.0	10.0	3.8	17.3	1.1	-	0.1	-	-
34	Fabricated metal products.....	31	100.0	-	-	5.9	.6	.3	-	-	-
35	Machinery, except electrical.....	156	100.0	2.4	4.6	9.1	4.4	2.4	-	.1	.2
358	Service industry machines.....	80	100.0	1.5	8.5	13.7	.9	2.2	-	.2	.1
359	Miscellaneous machinery and parts (except electrical).....	16	100.0	1.6	1.8	2.4	31.8	.7	.2	-	-
36	Electrical machinery and equipment....	77	100.0	2.0	.4	20.2	3.1	1.9	.2	.2	1.0

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15	16	17 ²	18
	Total.....	0.1	4.8	0.9	0.7	2.3	0.5	7.5	2.7	1.7	0.9
20	Food and kindred products.....	-	6.7	.9	.9	3.1	.6	9.8	3.1	.3	1.2
30	Rubber and miscellaneous plastics products.....	-	5.9	-	-	4.6	-	6.3	1.1	.1	2.4
34	Fabricated metal products.....	.3	.1	.3	-	.2	1.1	2.8	1.3	.3	.6
35	Machinery, except electrical.....	1.0	2.8	1.9	.4	1.2	1.8	1.7	.3	-	1.5
358	Service industry machines.....	.6	.7	2.8	.6	.4	3.4	.6	-	-	2.0
359	Miscellaneous machinery and parts (except electrical).....	.3	1.7	.8	.2	2.1	.5	6.9	2.0	-	4.6
36	Electrical machinery and equipment....	.3	.3	.5	1.5	1.2	.2	2.4	.5	-	.7

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued								
		19	20	21	22	23	24	25	30	50
	Total.....	0.1	1.1	0.9	1.1	0.6	3.5	2.1	16.7	36.4
20	Food and kindred products.....	-	1.1	.3	.5	-	2.7	.8	14.5	34.8
30	Rubber and miscellaneous plastics products.....	-	9.1	-	1.5	-	-	4.2	2.9	29.6
34	Fabricated metal products.....	.1	.8	.5	.2	.4	.1	.5	22.0	61.6
35	Machinery, except electrical.....	1.6	1.2	.2	1.3	.9	2.3	4.9	28.5	23.3
358	Service industry machines.....	.8	2.1	.2	.1	1.7	4.3	3.5	24.9	24.2
359	Miscellaneous machinery and parts (except electrical).....	.1	.2	.1	.7	-	.3	2.8	20.8	17.4
36	Electrical machinery and equipment....	-	1.3	1.7	.6	1.3	6.8	10.2	26.0	15.5

¹See description of production areas on page 313.²Includes only those shipments that originated in one city in this area and terminated in another city in this area.

Production Area 18

Production Area 18 consists of one standard metropolitan statistical area: St. Louis, Mo.-Ill.

Data are based on 124 plants from which 15,095 shipping documents were sampled. The sampling variability on the estimated 23.2 million tons shipped from Production Area 18 is ± 15.6 percent.

Major commodity groups shipped from Production Area 18 and their area of destinations are summarized in table A below.

Table A.—DISTRIBUTION OF TONS OF COMMODITIES SHIPPED FROM PRODUCTION AREA 18,
BY AREA OF DESTINATION

TCC code	Commodity class	Total tons (thousands)	Percent distribution by destination area			
			Production Area 18 ¹	Other produc- tion areas	Other SMSA's	Balance of country
	Total.....	² 23,229	17.8	18.5	29.7	34.0
20	Food and kindred products.....	2,408	4.5	26.9	30.1	38.5
28	Chemicals and allied products.....	3,453	18.3	32.6	22.7	26.4
29	Petroleum and coal products.....	8,432	22.9	8.3	37.9	30.9
32	Stone, clay, and glass products.....	3,890	25.0	11.1	17.5	46.4
33	Primary metal products.....	2,251	6.9	34.3	32.9	25.9
34	Fabricated metal products.....	541	7.3	26.2	18.0	48.5
35	Machinery, except electrical.....	70	.2	52.4	21.8	25.6
36	Electrical machinery and equipment.....	134	.3	37.0	27.0	35.7
37	Transportation equipment.....	1,358	3.1	22.3	32.4	42.2

¹Includes only those shipments that originated in one city in this area and terminated in another city in this area.

²Includes commodity classes not shown separately.

TABLE 1. Tons of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by means of transport								Sampling variability code ¹
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown	
	Total.....	23,229	100.0	32.5	35.1	8.8	-	23.1	0.5	-	
20	Food and kindred products.....	2,408	100.0	45.5	26.9	27.3	-	-	.3	-	a
28	Chemicals and allied products.....	3,453	100.0	54.9	38.1	6.3	-	-	.7	-	c
281	Industrial chemicals.....	1,654	100.0	50.1	37.8	12.1	-	-	-	-	d
29	Petroleum and coal products.....	8,432	100.0	9.2	22.8	5.2	-	62.8	-	-	c
291	Products of petroleum refining.....	8,377	100.0	9.2	22.4	5.2	-	63.2	-	-	c
32	Stone, clay, and glass products.....	3,890	100.0	41.9	57.2	.9	-	-	-	-	e
33	Primary metal products.....	2,251	100.0	49.7	38.4	8.2	-	2.6	1.0	0.1	b
335	Nonferrous metal basic shapes.....	249	100.0	47.9	37.7	13.8	-	-	.6	-	e
34	Fabricated metal products.....	541	100.0	21.0	44.3	31.1	0.2	.3	3.1	-	d
35	Machinery, except electrical.....	70	100.0	22.1	55.1	9.1	.3	-	13.2	.2	c
36	Electrical machinery and equipment..	134	100.0	21.2	73.2	.2	.1	-	5.3	-	c
37	Transportation equipment.....	1,358	100.0	52.6	45.3	1.6	-	.2	.3	-	b
371	Motor vehicles and motor vehicle equipment.....	1,264	100.0	49.7	48.1	1.7	-	.2	.3	-	b
3711	Motor vehicles.....	1,113	100.0	50.9	48.6	.3	-	-	.2	-	b
3714	Motor vehicle parts and accessories.....	137	100.0	45.3	44.1	9.7	-	-	.9	-	d
374	Railroad equipment.....	92	100.0	93.2	6.3	.4	-	-	.1	-	a

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 2. Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Ton-miles (millions)	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
	Total.....	6,446	100.0	55.1	25.0	4.6	0.1	13.9	1.3	-
20	Food and kindred products.....	1,073	100.0	59.7	28.6	11.1	-	-	.6	-
28	Chemicals and allied products.....	1,353	100.0	76.0	21.5	2.0	-	-	.5	-
281	Industrial chemicals.....	516	100.0	72.4	22.9	4.6	.1	-	-	-
29	Petroleum and coal products.....	1,257	100.0	16.4	12.1	2.7	-	68.7	.1	-
291	Products of petroleum refining.....	1,234	100.0	15.8	11.4	2.7	-	70.0	.1	-
32	Stone, clay, and glass products.....	636	100.0	62.0	36.3	1.7	-	-	-	-
33	Primary metal products.....	941	100.0	65.9	24.5	4.6	-	3.1	1.8	0.1
335	Nonferrous metal basic shapes.....	123	100.0	54.6	33.4	10.3	.2	-	1.5	-
34	Fabricated metal products.....	209	100.0	28.2	53.9	10.7	.5	.5	6.2	-
35	Machinery, except electrical.....	60	100.0	39.5	38.5	4.6	.3	-	17.1	-
36	Electrical machinery and equipment.....	81	100.0	32.3	56.1	.1	.2	-	11.3	-
37	Transportation equipment.....	682	100.0	72.7	25.3	1.3	-	.5	.2	-
371	Motor vehicles and motor vehicle equipment.....	637	100.0	71.5	26.4	1.4	-	.5	.2	-
3711	Motor vehicles.....	539	100.0	74.5	25.2	.3	-	-	-	-
3714	Motor vehicle parts and accessories.....	89	100.0	60.9	32.6	5.4	-	-	1.1	-
374	Railroad equipment.....	43	100.0	94.1	5.6	.2	-	-	.1	-

TABLE 3. Tons of Shipments—Distance and Commodity:
1963

TCC code	Commodity	Tons (thous.)	Percent distribution by distance of shipment								Sampling variability code ¹
			All distances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over	
	Total.....	23,229	100.0	28.2	22.1	20.8	13.2	12.5	1.6	1.6	
20	Food and kindred products.....	2,408	100.0	12.4	9.7	17.0	27.2	29.4	2.4	1.9	a
28	Chemicals and allied products.....	3,453	100.0	22.6	7.4	21.8	19.8	21.1	4.2	3.1	c
281	Industrial chemicals.....	1,654	100.0	33.3	8.8	21.5	18.4	14.1	.9	3.0	d
29	Petroleum and coal products.....	8,432	100.0	34.0	36.8	23.7	4.2	1.0	.2	.1	c
291	Products of petroleum refining.....	8,377	100.0	34.1	37.0	23.7	4.1	.9	.2	-	c
32	Stone, clay, and glass products.....	3,890	100.0	48.5	24.7	13.7	5.6	6.5	.5	.5	e
33	Primary metal products.....	2,251	100.0	9.6	11.4	25.4	25.9	22.2	2.6	2.9	b
335	Nonferrous metal basic shapes.....	249	100.0	2.4	8.0	39.9	17.4	23.5	1.7	7.1	e
34	Fabricated metal products.....	541	100.0	11.3	26.0	20.7	15.4	18.5	5.1	3.0	d
35	Machinery, except electrical.....	70	100.0	2.4	4.9	13.1	21.0	26.6	3.8	28.2	c
36	Electrical machinery and equipment..	134	100.0	1.4	3.7	17.5	39.7	21.9	4.1	11.7	c
37	Transportation equipment.....	1,358	100.0	8.5	8.0	17.7	25.5	31.6	3.4	5.3	b
371	Motor vehicles and motor vehicle equipment.....	1,264	100.0	8.6	8.3	17.4	24.6	32.4	3.6	5.1	b
3711	Motor vehicles.....	1,113	100.0	9.6	9.0	16.3	23.5	34.4	3.9	3.3	b
3714	Motor vehicle parts and accessories..	137	100.0	.2	3.3	27.7	34.5	13.9	1.7	18.7	d
374	Railroad equipment.....	92	100.0	8.2	3.4	21.9	37.0	22.3	.2	7.0	a

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5	6	7	8
	Total.....	23,229	100.0	0.3	0.2	0.5	0.9	0.4	0.3	-	-
20	Food and kindred products.....	2,408	100.0	.7	.2	1.3	2.2	.1	1.7	0.1	0.2
28	Chemicals and allied products.....	3,453	100.0	1.1	.6	.9	2.7	.7	1.0	-	-
281	Industrial chemicals.....	1,654	100.0	.4	1.2	1.0	1.1	.6	.7	-	-
29	Petroleum and coal products.....	8,432	100.0	-	-	-	.4	-	-	-	-
291	Products of petroleum refining.....	8,377	100.0	-	-	-	.4	-	-	-	-
32	Stone, clay, and glass products.....	3,890	100.0	-	-	.3	-	-	-	-	-
33	Primary metal products.....	2,251	100.0	.4	.2	.9	.5	2.5	.1	.1	.1
335	Nonferrous metal basic shapes.....	249	100.0	1.0	.9	4.6	.5	.1	.1	-	.6
34	Fabricated metal products.....	541	100.0	2.6	1.8	2.3	.5	1.3	.2	-	-
35	Machinery, except electrical.....	70	100.0	.3	.2	3.2	1.2	2.1	1.7	.6	.2
36	Electrical machinery and equipment..	134	100.0	1.0	.1	.6	.6	.3	.1	-	.1
37	Transportation equipment.....	1,358	100.0	.2	-	.4	.6	-	.1	-	-
371	Motor vehicles and motor vehicle equipment.....	1,264	100.0	.2	-	.4	.5	-	.1	-	-
3711	Motor vehicles.....	1,113	100.0	-	-	.3	.3	-	-	-	-
3714	Motor vehicle parts and accessories..	137	100.0	1.3	.2	.8	2.7	-	.6	-	-
374	Railroad equipment.....	92	100.0	-	-	.8	1.3	.2	-	-	-

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15	16	17	18 ²
	Total.....	0.2	0.3	0.5	0.6	1.6	1.3	6.3	0.4	0.7	17.8
20	Food and kindred products.....	1.4	1.2	1.6	1.8	1.3	2.4	4.3	.3	1.6	4.5
28	Chemicals and allied products.....	-	.5	.2	.2	2.8	5.1	9.2	.4	.2	18.3
281	Industrial chemicals.....	-	.8	.3	.5	3.5	2.1	7.2	.7	.2	28.3
29	Petroleum and coal products.....	-	-	.3	-	.5	.2	6.4	-	.2	22.9
291	Products of petroleum refining.....	-	-	.3	-	.4	.2	6.3	-	.2	22.9
32	Stone, clay, and glass products.....	-	.1	-	1.6	1.0	.6	4.5	1.0	.4	25.0
33	Primary metal products.....	.2	.7	1.8	.3	5.0	.3	8.9	.7	3.7	6.9
335	Nonferrous metal basic shapes.....	.9	1.8	1.4	-	1.4	-	8.9	1.3	1.2	1.8
34	Fabricated metal products.....	-	.7	.7	1.7	1.1	.6	5.8	.3	.6	7.3
35	Machinery, except electrical.....	.2	.4	.4	.6	5.3	.7	6.5	.5	.1	.2
36	Electrical machinery and equipment...	.2	.1	.5	.1	7.1	4.0	2.4	.5	.5	.3
37	Transportation equipment.....	.1	-	.2	-	2.6	.4	2.9	1.2	.5	3.1
371	Motor vehicles and motor vehicle equipment.....	.1	-	.2	-	2.8	.3	2.0	1.1	.5	3.3
3711	Motor vehicles.....	-	-	-	-	.5	.3	1.6	.7	.5	3.7
3714	Motor vehicle parts and accessories..	.1	-	1.6	-	20.8	.4	5.6	4.0	.5	-
374	Railroad equipment.....	.8	-	.2	.4	-	1.5	15.4	2.7	.1	-

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued								Sampling vari- ability code ³	
		19	20	21	22	23	24	25	30		50
	Total.....	0.3	1.3	0.7	0.4	0.2	0.5	0.6	29.7	34.0	
20	Food and kindred products.....	.3	2.3	-	-	.1	1.4	.4	30.1	38.5	a
28	Chemicals and allied products.....	.6	3.1	.6	.4	.6	.2	1.5	22.7	26.4	c
281	Industrial chemicals.....	.7	1.3	.3	.7	1.0	.4	1.1	18.3	27.6	d
29	Petroleum and coal products.....	-	-	.2	-	-	.1	-	37.9	30.9	c
291	Products of petroleum refining.....	-	-	.2	-	-	-	-	38.1	31.0	c
32	Stone, clay, and glass products.....	-	.1	.2	.9	-	.1	.3	17.5	46.4	e
33	Primary metal products.....	.1	2.8	2.4	.4	-	1.7	.5	32.9	25.9	b
335	Nonferrous metal basic shapes.....	.4	5.7	.4	.5	-	2.6	4.4	41.3	18.2	e
34	Fabricated metal products.....	1.8	1.0	.1	.7	.4	.7	1.3	18.0	48.5	d
35	Machinery, except electrical.....	1.1	.4	.3	.4	18.3	3.2	4.5	21.8	25.6	c
36	Electrical machinery and equipment...	7.8	2.1	1.0	-	2.4	1.0	4.5	27.0	35.7	c
37	Transportation equipment.....	.4	3.8	3.8	1.9	.3	1.2	1.7	32.4	42.2	b
371	Motor vehicles and motor vehicle equipment.....	.5	4.1	4.1	2.1	.2	1.3	1.8	31.6	42.8	b
3711	Motor vehicles.....	.5	4.1	4.5	2.0	.2	.5	.7	33.0	46.6	b
3714	Motor vehicle parts and accessories..	.1	3.9	.4	2.7	-	7.1	11.1	21.0	15.1	d
374	Railroad equipment.....	-	-	.4	-	2.9	-	-	41.9	31.4	a

¹See description of production areas on page 313.²Includes only those shipments that originated in one city in this area and terminated in another city in this area.³Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**

TCC code	Commodity	Ton-miles (millions)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5	6	7	8
	Total.....	6,446	100.0	1.3	0.6	1.6	2.8	1.3	0.9	0.1	0.1
20	Food and kindred products.....	1,073	100.0	1.6	.5	2.6	4.2	.2	2.8	.1	.3
28	Chemicals and allied products.....	1,353	100.0	2.8	1.5	1.9	6.0	1.4	1.8	-	-
281	Industrial chemicals.....	516	100.0	1.2	3.8	2.9	3.0	1.5	1.7	-	-
29	Petroleum and coal products.....	1,257	100.0	-	-	-	2.5	-	-	-	-
291	Products of petroleum refining.....	1,234	100.0	-	-	-	2.5	-	-	-	-
32	Stone, clay, and glass products.....	636	100.0	-	-	1.6	.2	.2	-	-	-
33	Primary metal products.....	941	100.0	.9	.5	1.9	1.0	4.9	.1	.2	.1
335	Nonferrous metal basic shapes.....	123	100.0	2.1	1.7	8.2	.9	.2	.1	-	.9
34	Fabricated metal products.....	209	100.0	7.0	4.3	5.3	1.2	2.8	.4	-	.1
35	Machinery, except electrical.....	60	100.0	.4	.2	3.3	1.2	2.0	1.5	.6	.2
36	Electrical machinery and equipment...	81	100.0	1.7	.1	.8	.9	.4	.1	-	.1
37	Transportation equipment.....	682	100.0	.3	-	.7	1.0	-	.1	-	-
371	Motor vehicles and motor vehicle equipment.....	637	100.0	.3	-	.6	.9	-	.1	-	-
3711	Motor vehicles.....	539	100.0	-	-	.5	.5	-	-	-	-
3714	Motor vehicle parts and accessories..	89	100.0	2.1	.3	1.1	3.6	-	.7	-	-
374	Railroad equipment.....	43	100.0	-	-	1.4	2.4	.4	-	-	-
TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15	16	17	18 ²
	Total.....	0.6	0.7	0.9	1.1	2.6	1.5	5.8	0.5	1.2	1.1
20	Food and kindred products.....	2.9	1.7	1.7	2.2	1.2	1.8	2.5	.2	1.6	.2
28	Chemicals and allied products.....	-	.8	.2	.3	3.0	4.0	6.1	.3	.2	.9
281	Industrial chemicals.....	-	1.6	.5	.8	4.6	2.1	6.1	.8	.4	1.7
29	Petroleum and coal products.....	-	-	1.0	-	1.5	.4	10.8	-	.6	2.8
291	Products of petroleum refining.....	-	-	1.0	-	1.3	.4	10.9	-	.6	2.8
32	Stone, clay, and glass products.....	.1	.2	.1	5.0	2.9	1.1	7.0	2.0	1.1	2.4
33	Primary metal products.....	.3	1.2	2.1	.4	5.2	.2	5.5	.5	4.1	.3
335	Nonferrous metal basic shapes.....	1.5	2.4	1.4	.1	1.3	-	4.5	.9	1.2	.1
34	Fabricated metal products.....	-	1.3	.9	2.3	1.3	.5	3.8	.2	.7	.3
35	Machinery, except electrical.....	.2	.3	.2	.4	2.8	.3	2.0	.2	.1	-
36	Electrical machinery and equipment...	.2	.2	.4	.1	5.3	2.0	1.0	.3	.4	-
37	Transportation equipment.....	.2	-	.2	-	2.3	.3	1.5	.7	.4	.1
371	Motor vehicles and motor vehicle equipment.....	.1	-	.2	-	2.4	.2	1.0	.7	.4	.1
3711	Motor vehicles.....	-	-	-	-	.5	.2	.9	.5	.5	.1
3714	Motor vehicle parts and accessories..	.1	-	1.2	-	14.4	.2	2.3	1.9	.3	-
374	Railroad equipment.....	1.6	-	.3	.4	-	1.0	8.0	1.9	.1	-

See footnotes at end of table.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued								
		19	20	21	22	23	24	25	30	50
	Total.....	0.4	2.6	1.6	1.1	1.3	3.1	3.2	32.9	29.1
20	Food and kindred products.....	.3	2.8	-	-	.4	5.3	1.4	29.5	32.0
28	Chemicals and allied products.....	.7	4.3	1.0	.8	2.7	1.0	6.2	27.3	24.8
281	Industrial chemicals.....	1.1	2.2	.6	1.8	5.8	2.3	5.7	23.7	24.1
29	Petroleum and coal products.....	-	-	.9	.2	-	.8	-	50.2	28.3
291	Products of petroleum refining.....	-	-	.9	-	-	-	-	51.0	28.6
32	Stone, clay, and glass products.....	-	.3	.7	4.2	.2	1.6	2.8	25.4	40.9
33	Primary metal products.....	.1	3.7	3.9	.7	-	7.1	2.0	32.4	20.7
335	Nonferrous metal basic shapes.....	.4	6.2	.5	.8	-	9.3	14.1	27.3	13.9
34	Fabricated metal products.....	2.1	1.5	.1	1.5	2.0	3.0	5.2	20.3	31.9
35	Machinery, except electrical.....	.6	.2	.2	.4	37.1	6.7	8.3	16.0	14.6
36	Electrical machinery and equipment...	6.0	1.9	1.1	.1	6.7	2.8	11.9	23.1	32.4
37	Transportation equipment.....	.4	4.1	5.1	3.0	1.2	4.0	5.4	32.3	36.7
371	Motor vehicles and motor vehicle equipment.....	.4	4.5	5.5	3.2	.5	4.3	5.8	31.3	37.5
3711	Motor vehicles.....	.5	4.6	6.2	3.3	.6	1.9	2.3	34.9	42.0
3714	Motor vehicle parts and accessories..	-	3.4	.4	3.3	-	19.0	27.3	9.5	8.9
374	Railroad equipment.....	-	-	.5	-	10.7	-	-	44.9	26.4

¹See description of production areas on page 313.²Includes only those shipments that originated in one city in this area and terminated in another city in this area.

Production Areas 19 and 20

Production Area 19 consists of 1 standard metropolitan statistical area: Atlanta, Ga.

Data for Production Area 19 are based on 34 plants from which 3,993 shipping documents were sampled. The sampling variability on the estimated 2.1 million tons shipped from Production Area 19 is ± 44.6 percent.

Production Area 20 consists of two standard metropolitan statistical areas: Dallas, Tex.; and Fort Worth, Tex.

Data for Production Area 20 are based on 65 plants from which 8,277 shipping documents were sampled. The sampling variability on the estimated 9.4 million tons shipped from Production Area 20 is ± 42.7 percent.

Summary Statistics: 1963

Item	Production area ¹		Item	Production area ¹	
	19	20		19	20
Tons of shipments.....thousands..	2,105	9,380	DISTRIBUTION BY PRODUCTION AREA OF DESTINATION—Continued (tons)		
Ton-miles of shipments.....millions..	714	3,121			
DISTRIBUTION BY MEANS OF TRANSPORT (tons)			Production area 10.....percent..	1.7	0.4
All means.....percent..	100.0	100.0	Production area 11.....do....	.4	.1
Rail.....do....	23.0	25.6	Production area 12.....do....	1.2	-
Motor carrier.....do....	46.8	52.2	Production area 13.....do....	.1	.1
Private truck.....do....	28.6	21.9	Production area 14.....do....	.9	.2
Air.....do....	-	-	Production area 15.....do....	1.2	1.9
Water.....do....	-	-	Production area 16.....do....	-	-
Other.....do....	1.4	.2	Production area 17.....do....	.5	.6
Unknown.....do....	.2	.1	Production area 18.....do....	.8	1.3
(ton-miles)			Production area 19.....do....	1.2	.4
All means.....do....	100.0	100.0	Production area 20.....do....	.1	15.8
Rail.....do....	27.9	34.5	Production area 21.....do....	.4	8.0
Motor carrier.....do....	46.3	49.7	Production area 22.....do....	-	1.4
Private truck.....do....	18.4	15.4	Production area 23.....do....	.1	.1
Air.....do....	-	.1	Production area 24.....do....	.2	.5
Water.....do....	-	.1	Production area 25.....do....	2.2	1.0
Other.....do....	7.1	.2	Production area 30.....do....	41.2	35.6
Unknown.....do....	.3	-	Production area 50.....do....	44.8	29.5
DISTRIBUTION BY DISTANCE OF SHIPMENT (tons)			(ton-miles)		
All distances.....do....	100.0	100.0	All production areas.....do....	100.0	100.0
Under 100 miles.....do....	21.0	24.2	Production area 1.....do....	1.8	1.7
100 to 199 miles.....do....	19.6	16.7	Production area 2.....do....	.5	1.8
200 to 299 miles.....do....	14.7	22.4	Production area 3.....do....	2.3	3.9
300 to 499 miles.....do....	24.2	17.9	Production area 4.....do....	.1	5.7
500 to 999 miles.....do....	17.8	12.2	Production area 5.....do....	.6	.1
1,000 to 1,499 miles.....do....	.1	6.0	Production area 6.....do....	.9	.1
1,500 miles or over.....do....	2.6	.6	Production area 7.....do....	-	-
DISTRIBUTION BY PRODUCTION AREA OF DESTINATION (tons)			Production area 8.....do....	-	-
All production areas.....do....	100.0	100.0	Production area 9.....do....	.3	-
Production area 1.....do....	.7	.4	Production area 10.....do....	3.6	1.6
Production area 2.....do....	.2	.4	Production area 11.....do....	.6	.2
Production area 3.....do....	1.0	.9	Production area 12.....do....	1.9	.1
Production area 4.....do....	.1	1.4	Production area 13.....do....	.1	.3
Production area 5.....do....	.3	-	Production area 14.....do....	1.0	.5
Production area 6.....do....	.6	-	Production area 15.....do....	2.0	4.6
Production area 7.....do....	-	-	Production area 16.....do....	.1	.1
Production area 8.....do....	-	-	Production area 17.....do....	1.3	1.5
Production area 9.....do....	.1	-	Production area 18.....do....	1.0	2.1
			Production area 19.....do....	² .1	.8
			Production area 20.....do....	.3	² 1.0
			Production area 21.....do....	.8	5.5
			Production area 22.....do....	.1	2.8
			Production area 23.....do....	.4	.3
			Production area 24.....do....	1.0	2.1
			Production area 25.....do....	12.4	3.7
			Other SMSA's.....do....	40.1	36.8
			Balance of country.....do....	26.7	22.7

¹See description of production areas on page 313.

Production Area 21

Production Area 21 consists of three standard metropolitan statistical areas, Houston, Tex.; Beaumont-Port Arthur, Tex.; and Galveston-Texas City, Tex.

Data are based on 91 plants from which 10,647 shipping documents were sampled. The sampling variability on the estimated 194.5 million tons shipped from Production Area 21 is ± 9.0 percent.

Major commodity groups shipped from Production Area 21 and their area of destinations are summarized in the table A below.

Table A.—DISTRIBUTION OF TONS OF COMMODITIES SHIPPED FROM PRODUCTION AREA 21,
BY AREA OF DESTINATION

TCC code	Commodity class	Total tons (thousands)	Percent distribution by destination area			
			Production Area 21 ¹	Other produc- tion areas	Other SMSA's	Balance of country
	Total.....	2194,537	3.3	62.8	22.7	11.2
28	Chemicals and allied products.....	9,079	26.9	36.4	12.9	23.8
29	Petroleum and coal products.....	168,444	1.7	63.3	25.0	10.0
33	Primary metal products.....	1,118	25.5	9.0	20.0	45.5
34	Fabricated metal products.....	785	13.3	20.7	37.8	28.2
35	Machinery, except electrical.....	165	7.5	15.6	35.8	41.1

¹Includes only those shipments that originated in one city in this area and terminated in another city in this area.

²Includes commodity classes not shown separately.

TABLE 1. Tons of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by means of transport								Sampling variability code ¹
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown	
	Total.....	194,537	100.0	4.0	2.9	0.6	-	92.4	0.1	-	
28	Chemicals and allied products.....	9,079	100.0	43.4	9.7	1.2	-	43.3	1.7	0.7	c
281	Industrial chemicals.....	5,924	100.0	25.4	8.1	1.1	-	62.0	2.5	.9	d
2818	Miscellaneous industrial organic chemicals.....	2,399	100.0	24.1	10.6	.5	-	64.7	-	.1	d
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	1,191	100.0	77.0	17.6	2.1	-	2.7	.3	.3	b
28211	Plastic materials and plasticizers, synthetic resins, and nonvulcanizable elastomers.....	739	100.0	75.5	20.8	.4	-	2.3	.5	.5	b
28212	Synthetic rubber.....	452	100.0	79.4	12.4	4.8	-	3.4	-	-	c
29	Petroleum and coal products.....	168,444	100.0	1.1	1.0	.4	-	97.4	.1	-	a
291	Products of petroleum refining.....	168,228	100.0	1.0	1.0	.4	-	97.5	.1	-	a
2911	Products of petroleum refining (except liquefied petroleum gases and petroleum coke and breeze).....	167,427	100.0	.9	1.0	.3	-	97.7	.1	-	a
29111	Gasoline, jet fuels, and other high volatile petroleum fuels (except natural gasoline).....	83,670	100.0	-	.7	.2	-	99.1	-	-	b
29114	Lubricating oils and similar light oils and derivatives.....	1,846	100.0	34.6	11.2	11.9	-	39.2	3.1	-	b
29117	Residual fuel oil and other low volatile petroleum fuels.....	33,441	100.0	.5	.6	.1	-	98.8	-	-	c
33	Primary metal products.....	1,118	100.0	34.4	54.1	10.3	-	.2	-	1.0	d
34	Fabricated metal products.....	785	100.0	27.2	40.2	28.8	-	3.2	.3	.3	c
344	Structural and miscellaneous metal products.....	429	100.0	31.0	32.7	31.1	-	4.6	.1	.5	d
35	Machinery, except electrical.....	165	100.0	35.5	51.4	12.2	0.7	-	.2	-	c

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 2. **Ton-Miles of Shipments—Means of Transport and Commodity: 1963**

TCC code	Commodity	Ton-miles (millions)	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Un-known
	Total.....	218,342	100.0	1.9	0.8	0.1	-	97.1	0.1	-
28	Chemicals and allied products.....	6,168	100.0	36.1	4.9	.8	-	58.1	.1	-
281	Industrial chemicals.....	4,435	100.0	19.3	2.1	.7	-	77.9	-	-
2818	Miscellaneous industrial organic chemicals.	2,531	100.0	21.8	2.6	.5	-	75.1	-	-
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	1,033	100.0	78.0	15.4	1.7	-	4.4	.5	-
28211	Plastic materials and plasticizers, synthetic resins, and nonvulcanizable elastomers.....	657	100.0	77.3	18.1	.1	-	3.8	.7	-
28212	Synthetic rubber.....	376	100.0	79.2	10.9	4.4	-	5.5	-	-
29	Petroleum and coal products.....	195,213	100.0	.5	.3	-	-	99.1	.1	-
291	Products of petroleum refining.....	195,154	100.0	.4	.3	-	-	99.2	.1	-
2911	Products of petroleum refining (except liquefied petroleum gases and petroleum coke and breeze).....	194,482	100.0	.4	.3	-	-	99.2	.1	-
29111	Gasoline, jet fuels, and other high volatile petroleum fuels (except natural gasoline).....	93,454	100.0	-	.2	-	-	99.8	-	-
29114	Lubricating oils and similar light oils and derivatives.....	1,375	100.0	30.9	5.8	3.1	-	53.1	7.1	-
29117	Residual fuel oil and other low volatile petroleum fuels.....	41,221	100.0	.1	.1	-	-	99.7	.1	-
33	Primary metal products.....	266	100.0	35.1	52.7	10.3	-	.9	-	1.0
34	Fabricated metal products.....	342	100.0	38.3	36.8	22.0	-	2.0	.2	.7
344	Structural and miscellaneous metal products.....	186	100.0	43.8	29.7	24.0	-	1.2	.2	1.1
35	Machinery, except electrical.....	97	100.0	48.8	45.2	4.6	1.4	-	-	-

TABLE 3. Tons of Shipments—Distance and Commodity:
1963

TCC code	Commodity	Tons (thous.)	Percent distribution by distance of shipment								Sam- pling vari- ability code ¹
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over	
	Total.....	194,537	100.0	4.0	2.1	2.3	4.7	12.7	62.8	11.4	
28	Chemicals and allied products.....	9,079	100.0	28.5	9.5	5.4	3.5	17.1	33.9	2.1	c
281	Industrial chemicals.....	5,924	100.0	25.9	11.2	6.3	2.5	11.8	40.5	1.8	d
2818	Miscellaneous industrial organic chemicals.....	2,399	100.0	12.4	1.7	1.3	1.3	24.8	57.1	1.4	d
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	1,191	100.0	10.2	5.0	1.7	5.5	32.2	38.8	6.6	b
28211	Plastic materials and plasticizers, synthetic resins, and nonvulcan- izable elastomers.....	739	100.0	3.1	7.9	2.4	3.0	40.4	36.1	7.1	b
28212	Synthetic rubber.....	452	100.0	21.7	.2	.6	9.6	19.0	43.1	5.8	c
29	Petroleum and coal products.....	168,444	100.0	1.9	1.3	1.8	5.0	13.0	64.0	13.0	a
291	Products of petroleum refining.....	168,228	100.0	1.9	1.3	1.8	5.0	13.0	64.0	13.0	a
2911	Products of petroleum refining (except liquefied petroleum gases and petroleum coke and breeze).....	167,427	100.0	1.8	1.3	1.8	5.0	12.9	64.2	13.0	a
29111	Gasoline, jet fuels, and other high volatile petroleum fuels (except natural gasoline).....	83,670	100.0	.8	1.5	.7	9.0	16.3	54.9	16.8	b
29114	Lubricating oils and similar light oils and derivatives.....	1,846	100.0	6.9	6.1	13.2	13.8	26.5	29.8	3.7	b
29117	Residual fuel oil and other low volatile petroleum fuels.....	33,441	100.0	3.1	1.3	.8	1.2	12.4	77.9	3.3	c
33	Primary metal products.....	1,118	100.0	22.6	14.2	47.6	9.6	4.1	1.5	.4	d
34	Fabricated metal products.....	785	100.0	16.3	16.6	23.8	13.6	19.2	7.9	2.6	c
344	Structural and miscellaneous metal products.....	429	100.0	14.9	13.4	28.3	17.8	15.2	5.8	4.6	d
35	Machinery, except electrical.....	165	100.0	9.7	10.5	17.1	12.0	27.5	19.0	4.2	c

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5	6	7	8
	Total.....	194,537	100.0	13.5	3.4	6.7	9.7	11.4	12.5	-	-
28	Chemicals and allied products.....	9,079	100.0	.3	10.5	6.7	5.1	4.1	.1	-	-
281	Industrial chemicals.....	5,924	100.0	-	15.7	9.9	6.8	5.4	.1	-	-
2818	Miscellaneous industrial organic chemicals.....	2,399	100.0	-	35.7	-	.9	12.1	.1	-	-
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	1,191	100.0	2.5	2.1	1.4	5.2	3.1	.8	-	-
28211	Plastic materials and plasticizers, synthetic resins, and nonvulcanizable elastomers.....	739	100.0	2.4	1.4	.4	7.7	.4	1.1	-	-
28212	Synthetic rubber.....	452	100.0	2.6	3.2	3.2	1.1	7.3	.2	-	-
29	Petroleum and coal products.....	168,444	100.0	15.7	3.3	7.3	10.9	6.3	14.4	-	-
291	Products of petroleum refining.....	168,228	100.0	15.7	3.3	7.3	10.9	6.3	14.4	-	-
2911	Products of petroleum refining (except liquefied petroleum gases and petroleum coke and breeze).....	167,427	100.0	15.6	3.2	7.4	11.0	6.3	14.5	-	-
29111	Gasoline, jet fuels, and other high volatile petroleum fuels (except natural gasoline).....	83,670	100.0	25.0	-	-	.3	7.5	12.2	-	-
29114	Lubricating oils and similar light oils and derivatives.....	1,846	100.0	-	-	-	15.9	.2	.4	-	-
29117	Residual fuel oil and other low volatile petroleum fuels.....	33,441	100.0	3.2	6.1	18.7	30.4	10.1	9.3	-	-
33	Primary metal products.....	1,118	100.0	-	.1	.2	-	-	.3	-	-
34	Fabricated metal products.....	785	100.0	.1	-	-	-	.2	.1	-	-
344	Structural and miscellaneous metal products.....	429	100.0	.1	-	-	-	.3	.1	-	-
35	Machinery, except electrical.....	165	100.0	-	-	.3	.1	.1	-	-	-

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15	16	17	18
	Total.....	3.6	-	0.1	0.3	-	0.2	0.6	-	-	0.3
28	Chemicals and allied products.....	-	0.1	.8	1.2	0.5	2.3	1.4	-	-	1.2
281	Industrial chemicals.....	-	.1	.2	1.7	.2	3.2	.6	0.1	-	.4
2818	Miscellaneous industrial organic chemicals.....	-	.1	.2	4.3	.1	7.8	1.4	.1	-	1.0
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	.1	.3	5.5	.8	2.7	.7	4.9	-	0.2	.8
28211	Plastic materials and plasticizers, synthetic resins, and nonvulcanizable elastomers.....	.1	.3	2.8	1.3	1.1	1.1	6.5	-	.3	1.2
28212	Synthetic rubber.....	-	.2	9.9	-	5.2	.1	2.2	-	-	.1
29	Petroleum and coal products.....	4.1	-	-	.2	-	-	.4	-	-	.3
291	Products of petroleum refining.....	4.1	-	-	.2	-	-	.4	-	-	.3
2911	Products of petroleum refining (except liquefied petroleum gases and petroleum coke and breeze).....	4.2	-	-	.2	-	-	.4	-	-	.3
29111	Gasoline, jet fuels, and other high volatile petroleum fuels (except natural gasoline).....	8.1	-	-	-	-	-	.1	-	-	.1
29114	Lubricating oils and similar light oils and derivatives.....	-	-	.4	2.4	.1	1.5	2.4	.6	.1	1.9
29117	Residual fuel oil and other low volatile petroleum fuels.....	.5	-	-	.4	-	-	.8	-	-	-
33	Primary metal products.....	-	-	-	-	-	-	1.1	-	-	.1
34	Fabricated metal products.....	-	-	-	-	.7	-	1.1	.6	-	.7
344	Structural and miscellaneous metal products.....	-	-	-	-	.3	-	-	-	-	1.2
35	Machinery, except electrical.....	-	-	-	-	3.3	.1	.2	-	-	-

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									Sampling variability code ³
		19	20	21 ²	22	23	24	25	30	50	
	Total.....	-	0.3	3.3	-	-	0.1	0.1	22.7	11.2	
28	Chemicals and allied products.....	0.1	.7	26.9	0.1	0.1	.4	.7	12.9	23.8	c
281	Industrial chemicals.....	.1	.8	23.7	.1	-	.2	.3	8.3	22.1	d
2818	Miscellaneous industrial organic chemicals.....	.1	.3	12.4	.1	-	.4	.8	15.6	6.5	d
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	.4	1.0	13.1	-	-	2.2	4.1	22.3	25.8	b
28211	Plastic materials and plasticizers, synthetic resins, and nonvulcanizable elastomers.....	.7	1.3	7.8	-	-	1.1	3.1	24.5	33.4	b
28212	Synthetic rubber.....	-	.5	21.9	-	-	4.1	5.7	18.8	13.7	c
29	Petroleum and coal products.....	-	.2	1.7	-	-	.1	.1	25.0	10.0	a
291	Products of petroleum refining.....	-	.2	1.7	-	-	.1	.1	25.0	10.0	a
2911	Products of petroleum refining (except liquefied petroleum gases and petroleum coke and breeze).....	-	.2	1.7	-	-	.1	.1	24.8	10.0	a
29111	Gasoline, jet fuels, and other high volatile petroleum fuels (except natural gasoline).....	-	.3	.7	-	-	-	-	33.0	12.7	b
29114	Lubricating oils and similar light oils and derivatives.....	-	3.3	5.6	.2	-	3.7	.2	28.1	33.0	b
29117	Residual fuel oil and other low volatile petroleum fuels.....	-	-	3.0	-	-	-	.3	12.9	4.3	c
33	Primary metal products.....	-	7.1	25.5	-	-	-	.1	20.0	45.5	d
34	Fabricated metal products.....	-	11.6	13.3	2.6	-	.6	2.4	37.8	28.2	c
344	Structural and miscellaneous metal products.....	-	14.6	11.7	1.1	-	1.1	1.6	31.9	36.0	d
35	Machinery, except electrical.....	-	9.1	7.5	-	-	-	2.4	35.8	41.1	c

¹See description of production areas on page 313.²Includes only those shipments that originated in one city in this area and terminated in another city in this area.³Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**

TCC code	Commodity	Ton-miles (millions)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5	6	7	8
	Total.....	218,342	100.0	18.6	4.3	8.3	11.9	13.2	13.5	-	-
28	Chemicals and allied products.....	6,168	100.0	.8	23.0	13.9	10.4	8.0	.2	-	-
281	Industrial chemicals.....	4,435	100.0	-	31.2	18.8	12.6	9.6	.1	-	-
2818	Miscellaneous industrial organic chemicals.....	2,531	100.0	-	50.1	-	1.2	15.3	.1	-	-
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	1,033	100.0	4.4	3.6	2.2	8.2	4.6	1.1	-	-
28211	Plastic materials and plasticizers, synthetic resins, and nonvulcanizable elastomers.....	657	100.0	4.2	2.4	.6	11.9	.7	1.5	-	-
28212	Synthetic rubber.....	376	100.0	4.8	5.5	5.1	1.7	11.3	.3	-	-
29	Petroleum and coal products.....	195,213	100.0	20.7	4.1	8.9	13.0	6.9	15.0	-	-
291	Products of petroleum refining.....	195,154	100.0	20.7	4.1	8.9	13.0	6.9	15.0	-	-
2911	Products of petroleum refining (except liquefied petroleum gases and petroleum coke and breeze).....	194,482	100.0	20.8	3.9	8.9	13.0	6.9	15.0	-	-
29111	Gasoline, jet fuels, and other high volatile petroleum fuels (except natural gasoline).....	93,454	100.0	34.2	-	-	.4	8.4	13.3	-	-
29114	Lubricating oils and similar light oils and derivatives.....	1,375	100.0	-	-	-	29.8	.3	.7	-	-
29117	Residual fuel oil and other low volatile petroleum fuels.....	41,221	100.0	4.1	7.1	21.4	34.5	10.8	9.5	-	-
33	Primary metal products.....	266	100.0	-	.7	1.0	-	-	1.4	-	-
34	Fabricated metal products.....	342	100.0	.2	-	-	-	.5	.2	-	-
344	Structural and miscellaneous metal products.....	186	100.0	.4	-	-	-	.9	.2	0.1	-
35	Machinery, except electrical.....	97	100.0	-	-	.8	.2	.2	-	-	-

See footnotes at end of table.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15	16	17	18
	Total.....	4.5	-	0.1	0.3	-	0.1	0.5	-	-	0.2
28	Chemicals and allied products.....	-	0.2	1.3	2.1	0.7	3.0	1.9	0.1	0.1	1.2
281	Industrial chemicals.....	-	.1	.2	2.6	.2	3.8	.8	.1	-	.4
2818	Miscellaneous industrial organic chemicals.....	-	.1	.2	4.6	.1	6.7	1.2	.1	-	.6
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	.1	.4	6.8	.9	3.3	.7	5.2	-	.2	.6
28211	Plastic materials and plasticizers, synthetic resins, and nonvulcanizable elastomers.....	.2	.4	3.4	1.5	1.4	1.1	6.7	-	.3	.9
28212	Synthetic rubber.....	-	.4	12.7	-	6.5	.1	2.4	-	-	.1
29	Petroleum and coal products.....	5.1	-	-	.2	-	-	.3	-	-	.2
291	Products of petroleum refining.....	5.1	-	-	.2	-	-	.3	-	-	.2
2911	Products of petroleum refining (except liquefied petroleum gases and petroleum coke and breeze).....	5.1	-	-	.2	-	-	.3	-	-	.2
29111	Gasoline, jet fuels, and other high volatile petroleum fuels (except natural gasoline).....	10.3	-	-	-	-	-	.1	-	-	-
29114	Lubricating oils and similar light oils and derivatives.....	-	-	.5	3.5	.1	1.7	2.8	.8	.2	1.7
29117	Residual fuel oil and other low volatile petroleum fuels.....	.6	-	-	.3	-	-	.6	-	-	-
33	Primary metal products.....	.2	-	-	-	.1	.1	4.4	.2	-	.2
34	Fabricated metal products.....	-	.1	-	-	1.7	-	2.3	1.3	.1	1.0
344	Structural and miscellaneous metal products.....	-	-	-	-	.8	-	.1	-	-	1.9
35	Machinery, except electrical.....	-	-	-	-	6.2	.1	.4	-	-	-

See footnotes at end of table.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued								
		19	20	21 ²	22	23	24	25	30	50
	Total.....	-	0.1	0.1	-	-	0.1	0.1	17.2	6.9
28	Chemicals and allied products.....	0.1	.3	.9	0.1	0.2	1.0	1.5	12.7	16.3
281	Industrial chemicals.....	.1	.2	.9	.1	-	.4	.6	8.4	8.8
2818	Miscellaneous industrial organic chemicals.....	.1	.1	.7	.1	-	.7	1.0	12.3	4.7
282	Plastic materials and plasticizers, synthetic resins, rubbers, and fibers.....	.3	.3	.6	-	-	4.4	6.7	17.8	27.6
28211	Plastic materials and plasticizers, synthetic resins, and nonvulcanizable elastomers.....	.5	.4	.7	-	-	2.0	4.8	18.3	36.1
28212	Synthetic rubber.....	-	.1	.4	-	-	8.5	9.9	17.0	13.2
29	Petroleum and coal products.....	-	-	.1	-	-	.1	.1	18.5	6.8
291	Products of petroleum refining.....	-	-	.1	-	-	.1	.1	18.5	6.8
2911	Products of petroleum refining (except liquefied petroleum gases and petroleum coke and breeze).....	-	-	.1	-	-	.1	.1	18.6	6.8
29111	Gasoline, jet fuels, and other high volatile petroleum fuels (except natural gasoline).....	-	.1	-	-	-	-	-	24.1	9.1
29114	Lubricating oils and similar light oils and derivatives.....	-	1.2	.4	.2	-	8.5	.3	19.9	27.4
29117	Residual fuel oil and other low volatile petroleum fuels.....	-	-	.1	-	-	.1	.3	7.7	2.9
33	Primary metal products.....	-	6.9	3.6	-	-	-	.8	33.2	47.2
34	Fabricated metal products.....	-	6.3	2.2	5.3	-	2.3	7.5	43.4	25.6
344	Structural and miscellaneous metal products.....	-	7.9	2.1	2.2	-	4.0	5.0	37.0	37.4
35	Machinery, except electrical.....	-	3.6	.6	-	-	-	5.7	35.1	47.1

¹See description of production areas on page 313.²Includes only those shipments that originated in one city in this area and terminated in another city in this area.

Production Areas 22 and 23

Production Area 22 consists of 1 standard metropolitan statistical area: Denver, Colo.

Data for Production Area 22 are based on 26 plants from which 3,267 shipping documents were sampled. The sampling variability on the estimated 2.8 million tons shipped from Production Area 22 is ± 28.9 percent.

Production Area 23 consists of three standard metropolitan statistical areas: Seattle-Everett, Wash.; and Tacoma, Wash.

Data for Production Area 23 are based on 46 plants from which 4,686 shipping documents were sampled. The sampling variability on the estimated 7.5 million tons shipped from Production Area 23 is ± 32.6 percent.

Summary Statistics: 1963

Item	Production area ¹		Item	Production area ¹	
	22	23		22	23
Tons of shipments.....thousands..	2,847	7,490	DISTRIBUTION BY PRODUCTION AREA OF DESTINATION—Continued (tons)		
Ton-miles of shipments.....millions..	1,478	3,116			
DISTRIBUTION BY MEANS OF TRANSPORT (tons)			Production area 10.....percent..	-	-
All means.....percent..	100.0	100.0	Production area 11.....do....	0.2	-
Rail.....do....	33.2	25.5	Production area 12.....do....	-	0.5
Motor carrier.....do....	37.8	24.0	Production area 13.....do....	.1	.5
Private truck.....do....	28.6	37.2	Production area 14.....do....	-	.2
Air.....do....	.1	.1	Production area 15.....do....	5.0	.5
Water.....do....	.2	13.0	Production area 16.....do....	.7	-
Other.....do....	.1	.1	Production area 17.....do....	.2	.3
Unknown.....do....	-	.1	Production area 18.....do....	.7	.1
(ton-miles)			Production area 19.....do....	.1	.1
All means.....do....	100.0	100.0	Production area 20.....do....	.7	.2
Rail.....do....	39.1	72.2	Production area 21.....do....	.7	.2
Motor carrier.....do....	47.1	13.5	Production area 22.....do....	3.0	.6
Private truck.....do....	13.0	6.8	Production area 23.....do....	.2	38.7
Air.....do....	.2	.1	Production area 24.....do....	1.4	4.8
Water.....do....	.4	7.1	Production area 25.....do....	5.5	4.0
Other.....do....	.2	.2	Production area 30.....do....	28.3	8.7
Unknown.....do....	-	.1	Production area 50.....do....	44.4	39.0
DISTRIBUTION BY DISTANCE OF SHIPMENT (tons)			(ton-miles)		
All distances.....do....	100.0	100.0	All production areas.....do....	100.0	100.0
Under 100 miles.....do....	23.3	55.9	Production area 1.....do....	5.1	2.3
100 to 199 miles.....do....	16.2	12.5	Production area 2.....do....	1.2	.8
200 to 299 miles.....do....	6.4	1.2	Production area 3.....do....	9.0	.3
300 to 499 miles.....do....	13.7	1.3	Production area 4.....do....	5.0	1.9
500 to 999 miles.....do....	27.6	14.0	Production area 5.....do....	5.0	2.1
1,000 to 1,499 miles.....do....	3.0	4.6	Production area 6.....do....	1.9	.5
1,500 miles or over.....do....	9.8	10.5	Production area 7.....do....	-	.9
DISTRIBUTION BY PRODUCTION AREA OF DESTINATION (tons)			Production area 8.....do....	-	.2
All production areas.....do....	100.0	100.0	Production area 9.....do....	-	.6
Production area 1.....do....	1.5	.4	Production area 10.....do....	-	.1
Production area 2.....do....	.4	.1	Production area 11.....do....	.5	.2
Production area 3.....do....	2.9	-	Production area 12.....do....	-	2.4
Production area 4.....do....	1.6	.3	Production area 13.....do....	.3	2.4
Production area 5.....do....	1.7	.4	Production area 14.....do....	-	.8
Production area 6.....do....	.7	.1	Production area 15.....do....	8.8	2.1
Production area 7.....do....	-	.2	Production area 16.....do....	1.2	.2
Production area 8.....do....	-	-	Production area 17.....do....	.3	1.1
Production area 9.....do....	-	.1	Production area 18.....do....	1.0	.5
			Production area 19.....do....	.2	.3
			Production area 20.....do....	.9	.8
			Production area 21.....do....	1.2	.9
			Production area 22.....do....	2.1	1.4
			Production area 23.....do....	.4	22.1
			Production area 24.....do....	2.4	7.8
			Production area 25.....do....	8.7	9.1
			Other SMSA's.....do....	26.9	15.4
			Balance of country.....do....	19.5	42.8

¹See description of production areas on page 313.

Production Area 24

Production Area 24 consists of three standard metropolitan statistical areas: San Francisco-Oakland, Calif.; Vallejo-Napa, Calif.; and San Jose, Calif.

Data are based on 148 plants from which 16,367 shipping documents were sampled. The sampling variability on the estimated 36.0 million tons shipped from Production Area 24 is ± 15.8 percent.

Major commodity groups shipped from Production Area 24 and their area of destinations are summarized in table A below.

Table A.—DISTRIBUTION OF TONS OF COMMODITIES SHIPPED FROM PRODUCTION AREA 24,
BY AREA OF DESTINATION

TCC code	Commodity class	Total tons (thousands)	Percent distribution by destination area			
			Production Area 24 ¹	Other produc- tion areas	Other SMSA's	Balance of country
	Total.....	236,009	30.5	14.5	29.6	25.4
20	Food and kindred products.....	5,757	18.2	43.6	24.0	14.2
28	Chemicals and allied products.....	1,929	17.2	32.9	24.8	25.1
29	Petroleum and coal products.....	14,502	22.6	4.6	42.7	30.1
32	Stone, clay, and glass products.....	9,600	53.1	2.3	19.4	25.2
34	Fabricated metal products.....	419	28.9	13.6	34.8	22.7
35	Machinery, except electrical.....	144	11.3	39.3	15.2	34.2
36	Electrical machinery and equipment.....	77	5.5	37.3	18.2	39.0
37	Transportation equipment.....	318	22.3	31.7	29.4	16.6

¹Includes only those shipments that originated in one city in this area and terminated in another city in this area.

²Includes commodity classes not shown separately.

TABLE 1. Tons of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by means of transport								Sampling variability code ¹
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown	
	Total.....	36,009	100.0	27.5	25.7	15.4	-	30.5	0.8	0.1	
20	Food and kindred products.....	5,757	100.0	54.4	24.1	16.9	-	4.6	-	-	c
203	Canned and preserved fruits, vegetables, and seafoods.....	2,496	100.0	70.9	19.5	3.7	-	5.9	-	-	d
2033	Canned fruits and vegetables.....	1,851	100.0	82.0	8.6	4.6	-	4.8	-	-	e
209	Miscellaneous food preparations and kindred products.....	1,192	100.0	47.9	39.5	11.7	-	.9	-	-	d
2099	Miscellaneous food preparations.....	851	100.0	45.9	37.0	16.0	-	1.1	-	-	e
20999	Food preparations, n.e.c.....	728	100.0	43.3	41.0	15.7	-	-	-	-	e
28	Chemicals and allied products.....	1,929	100.0	46.2	40.7	11.7	-	1.2	.1	.1	d
285	Paints, varnishes, lacquers, enamels, and allied products.....	425	100.0	27.7	34.0	36.9	-	1.1	-	.3	d
29	Petroleum and coal products.....	14,502	100.0	4.6	12.3	9.1	-	72.8	1.2	-	b
291	Products of petroleum refining.....	14,389	100.0	4.4	11.9	9.1	-	73.4	1.2	-	b
32	Stone, clay, and glass products.....	9,600	100.0	40.0	29.6	29.1	-	1.3	-	-	e
34	Fabricated metal products.....	419	100.0	36.9	40.8	19.6	0.1	-	.7	1.9	c
35	Machinery, except electrical.....	144	100.0	8.2	73.2	8.8	8.5	-	.8	.5	e
36	Electrical machinery and equipment..	77	100.0	1.5	86.6	1.1	2.6	4.3	3.8	.1	e
361	Electrical transmission and distribution equipment.....	2	100.0	-	64.6	.1	19.6	-	15.5	.2	b
3611	Electrical measuring instruments and test equipment.....	2	100.0	-	59.4	.1	22.5	-	17.8	.2	c
367	Electronic components or accessories	3	100.0	9.6	59.8	2.4	17.5	-	10.4	.3	d
3679	Miscellaneous electronic components and accessories.....	1	100.0	.2	46.8	9.4	29.2	-	13.3	1.1	c
37	Transportation equipment.....	318	100.0	15.8	64.0	19.3	.1	.7	.1	-	b
371	Motor vehicles and motor vehicle equipment.....	268	100.0	18.7	65.5	14.8	.1	.8	.1	-	b

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 2. **Ton-Miles of Shipments—Means of Transport and Commodity: 1963**

TCC code	Commodity	Ton-miles (millions)	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Un-known
	Total.....	13,281	100.0	61.8	14.1	3.7	0.2	19.9	0.3	-
20	Food and kindred products.....	5,836	100.0	83.4	10.0	2.6	-	4.0	-	-
203	Canned and preserved fruits, vegetables, and seafoods.....	3,899	100.0	83.7	9.8	1.2	-	5.3	-	-
2033	Canned fruits and vegetables.....	3,072	100.0	92.4	2.4	1.3	-	3.9	-	-
209	Miscellaneous food preparations and kindred products.....	809	100.0	80.4	12.0	5.1	-	2.5	-	-
2099	Miscellaneous food preparations.....	626	100.0	82.5	8.0	6.5	-	3.0	-	-
20999	Food preparations, n.e.c.....	451	100.0	82.5	9.8	7.7	-	-	-	-
28	Chemicals and allied products.....	1,482	100.0	85.3	13.0	1.6	-	.1	-	-
285	Paints, varnishes, lacquers, enamels, and allied products.....	111	100.0	57.6	33.4	8.7	-	.2	-	0.1
29	Petroleum and coal products.....	2,966	100.0	10.3	6.2	2.9	-	80.5	.1	-
291	Products of petroleum refining.....	2,942	100.0	9.9	6.0	2.9	-	81.1	.1	-
32	Stone, clay, and glass products.....	955	100.0	44.9	33.4	20.9	-	.8	-	-
34	Fabricated metal products.....	126	100.0	35.3	57.1	3.9	.6	-	2.6	.5
35	Machinery, except electrical.....	116	100.0	11.7	64.1	.4	21.1	-	1.3	1.4
36	Electrical machinery and equipment.....	46	100.0	1.5	82.5	.3	8.3	.3	6.9	.2
361	Electrical transmission and distribution equipment.....	2	100.0	.1	58.9	-	29.2	-	11.7	.1
3611	Electrical measuring instruments and test equipment.....	2	100.0	.1	51.7	-	34.4	-	13.7	.1
367	Electronic components or accessories.....	4	100.0	10.4	52.6	.1	23.4	-	13.1	.4
3679	Miscellaneous electronic components and accessories.....	1	100.0	.2	49.8	.2	36.0	-	12.3	1.5
37	Transportation equipment.....	114	100.0	36.9	50.4	12.4	.2	.1	-	-
371	Motor vehicles and motor vehicle equipment.....	100	100.0	42.2	46.8	10.7	.2	.1	-	-

TABLE 3. Tons of Shipments—Distance and Commodity:
1963

TCC code	Commodity	Tons (thous.)	Percent distribution by distance of shipment								Sam- pling vari- ability code ¹
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over	
	Total.....	36,009	100.0	54.2	10.3	4.0	7.5	13.4	1.5	9.1	
20	Food and kindred products.....	5,757	100.0	25.6	2.3	3.4	15.3	10.3	5.9	37.2	c
203	Canned and preserved fruits, vege- tables, and seafoods.....	2,496	100.0	9.3	1.1	.5	10.7	9.4	6.8	62.2	d
2033	Canned fruits and vegetables.....	1,851	100.0	7.4	1.2	.5	9.1	7.1	7.4	67.3	e
209	Miscellaneous food preparations and kindred products.....	1,192	100.0	29.6	2.5	2.4	22.3	21.1	4.8	17.3	d
2099	Miscellaneous food preparations.....	851	100.0	32.0	3.0	2.9	15.5	21.5	3.9	21.2	e
20999	Food preparations, n.e.c.....	728	100.0	34.9	3.2	2.3	17.3	24.5	3.6	14.2	e
28	Chemicals and allied products.....	1,929	100.0	26.3	15.6	6.8	11.6	11.5	2.2	26.0	d
285	Paints, varnishes, lacquers, enamels, and allied products.....	425	100.0	45.5	6.9	5.2	21.9	20.5	-	-	d
29	Petroleum and coal products.....	14,502	100.0	62.3	6.4	5.6	2.1	23.1	-	.5	b
291	Products of petroleum refining.....	14,389	100.0	62.5	6.4	5.6	1.9	23.1	-	.5	b
32	Stone, clay, and glass products.....	9,600	100.0	68.9	23.4	1.6	3.3	2.8	-	-	e
34	Fabricated metal products.....	419	100.0	51.8	2.1	4.1	14.0	24.2	.1	3.7	c
35	Machinery, except electrical.....	144	100.0	36.1	1.9	1.0	22.6	5.9	5.9	26.6	e
36	Electrical machinery and equipment...	77	100.0	24.5	15.4	8.6	16.8	14.0	1.9	18.8	e
361	Electrical transmission and distribution equipment.....	2	100.0	25.1	20.9	.3	9.6	4.2	11.8	28.1	b
3611	Electrical measuring instruments and test equipment.....	2	100.0	28.6	19.5	.3	10.9	4.8	3.9	32.0	c
367	Electronic components or accessories.	3	100.0	5.1	.4	.2	8.0	30.8	2.4	53.1	d
3679	Miscellaneous electronic components and accessories.....	1	100.0	13.4	1.2	.6	8.0	4.8	2.5	69.5	c
37	Transportation equipment.....	318	100.0	33.7	5.1	8.9	24.6	22.8	2.7	2.2	b
371	Motor vehicles and motor vehicle equipment.....	268	100.0	31.1	5.2	10.1	26.2	21.6	3.2	2.6	b

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5	6	7	8
	Total.....	36,009	100.0	0.4	0.1	0.4	0.4	0.4	0.1	0.1	-
20	Food and kindred products.....	5,757	100.0	.5	.3	2.5	1.0	2.2	.3	.2	0.3
203	Canned and preserved fruits, vegetables, and seafoods.....	2,496	100.0	1.0	.1	5.4	1.7	5.0	.5	.4	.7
2033	Canned fruits and vegetables.....	1,851	100.0	1.4	.1	6.3	1.8	6.1	.7	.6	.9
209	Miscellaneous food preparations and kindred products.....	1,192	100.0	.1	1.1	.6	1.2	.2	.5	-	-
2099	Miscellaneous food preparations.....	851	100.0	.1	1.5	.9	1.7	.3	.6	-	-
20999	Food preparations, n.e.c.....	728	100.0	-	1.7	-	2.0	.1	-	-	-
28	Chemicals and allied products.....	1,929	100.0	5.4	.6	-	2.0	-	1.1	.9	-
285	Paints, varnishes, lacquers, enamels, and allied products.....	425	100.0	-	-	-	-	-	-	-	-
29	Petroleum and coal products.....	14,502	100.0	-	-	-	.3	-	-	-	-
291	Products of petroleum refining.....	14,389	100.0	-	-	-	.3	-	-	-	-
32	Stone, clay, and glass products.....	9,600	100.0	-	-	-	-	-	-	-	-
34	Fabricated metal products.....	419	100.0	-	-	.3	.2	-	-	-	-
35	Machinery, except electrical.....	144	100.0	.2	.4	4.7	.4	.5	-	-	.1
36	Electrical machinery and equipment....	77	100.0	.2	-	2.7	.1	.2	.3	-	.1
361	Electrical transmission and distribution equipment.....	2	100.0	1.7	.1	2.1	3.1	1.3	.6	.5	-
3611	Electrical measuring instruments and test equipment.....	2	100.0	1.9	.2	2.4	3.5	1.5	.7	.6	-
367	Electronic components or accessories..	3	100.0	2.3	.8	14.5	.7	1.1	4.1	-	.1
3679	Miscellaneous electronic components and accessories.....	1	100.0	1.9	1.1	19.7	.5	3.3	14.6	-	.5
37	Transportation equipment.....	318	100.0	-	-	.1	-	-	-	-	-
371	Motor vehicles and motor vehicle equipment.....	268	100.0	-	-	.1	-	-	-	-	-

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15	16	17	18
	Total.....	0.1	0.2	0.2	0.2	0.3	0.1	0.9	0.5	0.2	0.4
20	Food and kindred products.....	.3	1.0	.9	1.2	1.2	.3	4.5	2.9	1.1	2.3
203	Canned and preserved fruits, vegetables, and seafoods.....	.8	2.2	1.9	2.6	2.6	.4	5.6	1.4	1.9	2.4
2033	Canned fruits and vegetables.....	.8	.6	2.4	3.4	3.0	.4	6.3	1.8	2.3	2.6
209	Miscellaneous food preparations and kindred products.....	-	-	.1	.1	.5	.7	3.1	-	1.3	-
2099	Miscellaneous food preparations.....	-	-	.2	.1	.6	1.0	1.5	-	1.8	-
20999	Food preparations, n.e.c.....	-	-	.2	.1	.4	1.2	.2	-	.1	-
28	Chemicals and allied products.....	-	-	.6	-	1.6	-	2.9	-	.1	-
285	Paints, varnishes, lacquers, enamels, and allied products.....	-	-	-	-	-	-	-	-	-	-
29	Petroleum and coal products.....	-	-	-	-	-	-	-	-	-	-
291	Products of petroleum refining.....	-	-	-	-	-	-	-	-	-	-
32	Stone, clay, and glass products.....	-	-	-	-	-	-	-	-	-	-
34	Fabricated metal products.....	-	-	-	.3	.4	-	-	-	-	-
35	Machinery, except electrical.....	.1	.1	.9	1.0	1.8	.1	3.5	-	.1	2.7
36	Electrical machinery and equipment....	.3	-	.1	-	.2	.2	.6	-	-	-
361	Electrical transmission and distribution equipment.....	2.0	-	.1	-	.5	.1	.4	-	.1	.4
3611	Electrical measuring instruments and test equipment.....	2.3	.1	.1	.1	.6	.2	.4	.1	.1	.4
367	Electronic components or accessories..	6.2	.6	-	-	2.1	4.4	1.8	-	.4	-
3679	Miscellaneous electronic components and accessories.....	1.4	.8	.2	.2	4.3	3.3	1.4	-	.2	-
37	Transportation equipment.....	-	-	-	-	-	-	-	-	-	-
371	Motor vehicles and motor vehicle equipment.....	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									Sampling variability code ³
		19	20	21	22	23	24 ²	25	30	50	
	Total.....	0.1	0.3	0.3	0.3	2.0	30.5	6.5	29.6	25.4	
20	Food and kindred products.....	.6	1.5	.1	1.3	1.5	18.2	15.6	24.0	14.2	c
203	Canned and preserved fruits, vegetables, and seafoods.....	1.3	1.6	.1	2.6	1.3	6.9	10.0	27.6	12.0	d
2033	Canned fruits and vegetables.....	1.3	2.1	-	2.1	1.1	5.0	8.8	26.8	11.3	e
209	Miscellaneous food preparations and kindred products.....	.2	.2	.2	.1	3.4	21.3	21.5	32.1	11.5	d
2099	Miscellaneous food preparations.....	.3	.2	-	.2	4.3	24.5	14.8	33.7	11.7	e
20999	Food preparations, n.e.c.....	-	.1	-	-	5.0	26.2	15.3	35.4	12.0	e
28	Chemicals and allied products.....	-	.4	2.8	.3	3.6	17.2	10.6	24.8	25.1	d
285	Paints, varnishes, lacquers, enamels, and allied products.....	-	-	-	1.3	13.8	26.1	21.2	22.8	14.8	d
29	Petroleum and coal products.....	-	-	.2	-	2.4	22.6	1.7	42.7	30.1	b
291	Products of petroleum refining.....	-	-	.2	-	2.4	22.5	1.6	42.8	30.2	b
32	Stone, clay, and glass products.....	-	-	-	-	1.6	53.1	.7	19.4	25.2	e
34	Fabricated metal products.....	-	-	.1	-	.6	28.9	11.7	34.8	22.7	c
35	Machinery, except electrical.....	-	.1	.1	-	.5	11.3	22.0	15.2	34.2	e
36	Electrical machinery and equipment.....	-	.8	10.4	.6	6.7	5.5	13.8	18.2	39.0	e
361	Electrical transmission and distribution equipment.....	.3	9.6	.2	.3	.6	24.0	7.3	33.3	11.4	b
3611	Electrical measuring instruments and test equipment.....	.4	1.3	.3	.3	.7	27.4	8.3	33.6	12.5	c
367	Electronic components or accessories..	-	.9	-	.3	.5	4.5	7.9	13.5	33.3	d
3679	Miscellaneous electronic components and accessories.....	-	1.9	-	.8	.3	11.0	7.6	17.7	7.3	c
37	Transportation equipment.....	-	-	1.0	1.6	4.7	22.3	24.3	29.4	16.6	b
371	Motor vehicles and motor vehicle equipment.....	-	-	1.2	1.6	3.4	19.2	27.1	31.2	16.2	b

¹See description of production areas on page 313.²Includes only those shipments that originated in one city in this area and terminated in another city in this area.³Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 5. Ton-Miles of Shipments—Production Area Destination and Commodity: 1963

TCC code	Commodity	Ton-miles (millions)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5	6	7	8
	Total.....	13,281	100.0	2.7	0.5	3.0	2.7	2.5	0.7	0.5	0.3
20	Food and kindred products.....	5,836	100.0	1.2	.7	6.2	2.4	5.5	.7	.5	.7
203	Canned and preserved fruits, vegetables, and seafoods.....	3,899	100.0	1.7	.1	8.8	2.7	8.1	.8	.7	1.0
2033	Canned fruits and vegetables.....	3,072	100.0	2.2	.2	9.7	2.7	9.2	1.0	.9	1.3
209	Miscellaneous food preparations and kindred products.....	809	100.0	.4	4.1	2.3	4.5	.8	1.6	-	-
2099	Miscellaneous food preparations.....	626	100.0	.5	5.4	3.0	5.8	1.1	2.1	-	-
20999	Food preparations, n.e.c.....	451	100.0	-	7.0	.1	8.1	.6	-	-	-
28	Chemicals and allied products.....	1,482	100.0	18.7	1.9	-	6.5	-	3.4	2.8	-
285	Paints, varnishes, lacquers, enamels, and allied products.....	111	100.0	-	-	-	-	-	-	-	-
29	Petroleum and coal products.....	2,966	100.0	-	-	-	3.3	-	-	-	-
291	Products of petroleum refining.....	2,942	100.0	-	-	-	3.4	-	-	-	-
32	Stone, clay, and glass products.....	955	100.0	-	-	-	-	-	-	-	-
34	Fabricated metal products.....	126	100.0	.2	-	2.7	1.3	-	-	-	-
35	Machinery, except electrical.....	116	100.0	.8	1.3	14.9	1.1	1.4	.1	-	.3
36	Electrical machinery and equipment.....	46	100.0	.9	.2	11.5	.6	.7	1.2	.1	.5
361	Electrical transmission and distribution equipment.....	2	100.0	5.0	.4	5.9	8.7	3.6	1.7	1.3	-
3611	Electrical measuring instruments and test equipment.....	2	100.0	5.8	.5	6.9	10.2	4.2	2.0	1.5	-
367	Electronic components or accessories..	4	100.0	4.0	1.3	23.9	1.2	1.8	6.4	-	.2
3679	Miscellaneous electronic components and accessories.....	1	100.0	2.9	1.5	29.5	.6	4.7	20.6	-	.6
37	Transportation equipment.....	114	100.0	-	-	.5	-	-	-	-	-
371	Motor vehicles and motor vehicle equipment.....	100	100.0	-	-	.6	-	-	-	-	-

See footnotes at end of table.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15	16	17	18
	Total.....	0.4	1.0	1.0	1.2	1.6	0.3	4.4	2.3	0.9	1.8
20	Food and kindred products.....	.8	2.2	1.8	2.6	2.5	.7	8.2	5.2	1.7	3.9
203	Canned and preserved fruits, vegetables, and seafoods.....	1.2	3.3	2.7	3.8	3.4	.5	6.6	1.6	1.9	2.7
2033	Canned fruits and vegetables.....	1.2	.8	3.1	4.7	3.7	.5	7.0	1.9	2.2	2.7
209	Miscellaneous food preparations and kindred products.....	-	.1	.4	.3	1.4	2.2	8.4	-	2.9	-
2099	Miscellaneous food preparations.....	-	.1	.5	.4	1.8	2.8	3.8	-	3.8	-
20999	Food preparations, n.e.c.....	-	-	.6	.2	1.3	3.9	.5	-	.3	-
28	Chemicals and allied products.....	-	-	1.5	-	4.2	-	6.8	-	.1	-
285	Paints, varnishes, lacquers, enamels, and allied products.....	-	-	-	-	-	.1	.1	-	-	-
29	Petroleum and coal products.....	-	-	-	-	-	-	-	-	-	-
291	Products of petroleum refining.....	-	-	-	-	-	-	-	-	-	-
32	Stone, clay, and glass products.....	-	-	-	-	-	-	-	-	-	-
34	Fabricated metal products.....	-	-	-	2.0	3.0	-	.2	-	-	.1
35	Machinery, except electrical.....	.4	.2	2.3	2.7	4.7	.2	7.9	.1	.1	5.7
36	Electrical machinery and equipment....	1.1	.2	.3	.1	.5	.6	1.8	-	.1	-
361	Electrical transmission and distribution equipment.....	5.4	.2	.2	.2	1.1	.3	.8	.1	.2	.7
3611	Electrical measuring instruments and test equipment.....	6.4	.2	.3	.2	1.3	.4	.9	.1	.2	.8
367	Electronic components or accessories..	9.9	1.0	-	.1	2.9	5.8	2.1	-	.4	.1
3679	Miscellaneous electronic components and accessories.....	2.0	1.1	.1	.3	5.3	3.8	1.4	-	.2	-
37	Transportation equipment.....	-	-	-	-	-	-	.1	-	.1	-
371	Motor vehicles and motor vehicle equipment.....	-	-	-	-	-	-	.1	-	.1	-

See footnotes at end of table.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued								
		19	20	21	22	23	24 ²	25	30	50
	Total.....	0.6	1.1	1.5	0.7	3.6	2.2	6.0	26.0	30.5
20	Food and kindred products.....	1.3	2.2	.2	1.2	1.0	.6	5.2	26.8	14.0
203	Canned and preserved fruits, vegetables, and seafoods.....	1.8	1.5	.2	1.5	.6	.1	2.2	26.8	13.7
2033	Canned fruits and vegetables.....	1.7	1.9	-	1.2	.5	.1	1.9	25.0	12.7
209	Miscellaneous food preparations and kindred products.....	.6	.3	.4	.2	3.4	.7	11.1	40.3	13.6
2099	Miscellaneous food preparations.....	.8	.4	-	.3	4.0	.7	6.9	41.7	14.1
20999	Food preparations, n.e.c.....	-	.3	-	-	5.4	.8	8.6	47.6	14.7
28	Chemicals and allied products.....	-	.8	6.0	.4	3.2	.6	4.7	15.4	23.0
285	Paints, varnishes, lacquers, enamels, and allied products.....	-	-	-	4.6	36.2	2.5	27.9	18.6	10.0
29	Petroleum and coal products.....	-	-	1.7	-	7.9	2.4	3.0	33.0	48.7
291	Products of petroleum refining.....	-	-	1.7	-	7.9	2.4	2.8	33.0	48.8
32	Stone, clay, and glass products.....	-	-	-	-	11.4	15.3	2.4	31.7	39.2
34	Fabricated metal products.....	-	.2	.5	-	1.4	2.0	13.2	45.2	28.0
35	Machinery, except electrical.....	.1	.2	.2	-	.5	.4	9.2	23.7	21.5
36	Electrical machinery and equipment....	.1	2.1	28.5	.9	7.4	.2	8.0	13.4	19.0
361	Electrical transmission and distribution equipment.....	.7	15.3	.4	.3	.5	.7	2.7	23.6	20.0
3611	Electrical measuring instruments and test equipment.....	.9	2.2	.5	.3	.6	.8	3.1	27.1	22.6
367	Electronic components or accessories..	-	.8	-	.2	.2	.1	1.7	16.4	19.5
3679	Miscellaneous electronic components and accessories.....	-	1.6	.1	.4	.1	.1	1.4	15.6	6.1
37	Transportation equipment.....	-	-	4.5	4.1	9.1	1.8	21.2	39.7	18.9
371	Motor vehicles and motor vehicle equipment.....	-	-	5.2	4.1	6.4	1.5	22.8	40.8	18.4

¹See description of production areas on page 313.²Includes only those shipments that originated in one city in this area and terminated in another city in this area.

Production Area 25

Production Area 25 consists of three standard metropolitan statistical areas: Los Angeles-Long Beach, Calif.; Anaheim-Santa Ana-Garden Grove, Calif.; and San Bernardino-Riverside-Ontario, Calif.

Data are based on 424 plants from which 46,504 shipping documents were sampled. The sampling variability on the estimated 49.6 million tons shipped from Production Area 25 is ± 18.3 percent.

Major commodity groups shipped from Production Area 25 and their area of destinations are summarized in table A below.

Table A.—DISTRIBUTION OF TONS OF COMMODITIES SHIPPED FROM PRODUCTION AREA 25,
BY AREA OF DESTINATION

TCC code	Commodity class	Total tons (thousands)	Percent distribution by destination area			
			Production Area 25 ¹	Other produc- tion areas	Other SMSA's	Balance of country
	Total.....	² 49,573	53.1	18.6	14.5	13.8
20	Food and kindred products.....	3,828	46.7	17.1	27.1	9.1
23	Apparel, including knit apparel, and other finished textile products.....	30	4.9	35.2	44.7	15.2
25	Furniture and fixtures.....	152	37.4	32.4	17.7	12.5
26	Pulp, paper, and allied products.....	1,022	63.2	3.4	16.8	16.6
27	Printed matter.....	5	72.6	10.5	11.1	5.8
28	Chemicals and allied products.....	3,146	50.9	13.5	22.9	12.7
29	Petroleum and coal products.....	18,310	41.8	29.7	10.3	18.2
30	Rubber and miscellaneous plastics products....	231	11.5	32.8	45.5	10.2
32	Stone, clay, and glass products.....	12,834	70.7	1.2	17.2	10.9
34	Fabricated metal products.....	1,448	47.6	19.1	19.7	13.6
35	Machinery, except electrical.....	418	27.5	40.8	24.8	6.9
36	Electrical machinery and equipment.....	185	19.2	47.3	22.2	11.3
37	Transportation equipment.....	974	31.0	26.6	27.3	15.1
38	Instruments, photographic goods, optical goods, watches, and clocks.....	13	24.9	50.4	11.3	13.4
39	Miscellaneous products of manufacturing.....	73	31.7	45.6	14.8	7.9

¹Includes only those shipments that originated in one city in this area and terminated in another city in this area.

²Includes commodity classes not shown separately.

TABLE 1. Tons of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by means of transport								Sampling variability code ¹
			All means of transport	Rail	Motor- carrier	Pri- vate truck	Air	Water	Other	Un- known	
	Total.....	49,573	100.0	15.5	34.6	29.9	0.1	19.3	0.3	0.3	
20	Food and kindred products.....	3,828	100.0	20.5	41.8	31.9	.1	2.7	.1	2.9	d
203	Canned and preserved fruits, vegeta- bles, and seafoods.....	1,977	100.0	28.8	34.8	29.7	-	1.1	.1	5.5	d
23	Apparel, including knit apparel, and other finished textile products.....	30	100.0	.5	51.0	.6	16.0	-	31.9	-	e
25	Furniture and fixtures.....	152	100.0	27.8	37.2	31.2	.6	-	.6	2.6	d
251	Household and office furniture.....	127	100.0	24.8	36.4	34.4	.7	-	.6	3.1	d
2519	Household and office furniture, n.e.c.....	64	100.0	46.5	24.1	28.4	.2	-	.8	-	e
26	Pulp, paper, and allied products.....	1,022	100.0	14.3	44.4	41.1	-	.2	-	-	e
27	Printed matter.....	5	100.0	.1	21.3	1.1	5.2	-	72.3	-	e
28	Chemicals and allied products.....	3,146	100.0	13.5	49.7	30.1	-	3.3	3.1	.3	d
283	Drugs and medicines (including biological products, medicinal chemicals, botanical products, and pharmaceutical preparations).....	46	100.0	-	66.5	27.2	.2	.8	5.3	-	e
284	Soap and detergents, cleaning prep- arations, perfumes, cosmetics, and other toilet preparations.....	990	100.0	10.7	78.0	1.7	.1	-	9.5	-	e
2844	Perfumes, cosmetics, and other toilet preparations.....	55	100.0	-	97.9	-	.9	-	1.1	.1	e
285	Paints, varnishes, lacquers, enamels, and allied products.....	228	100.0	.2	49.9	37.6	.2	12.1	-	-	e
289	Miscellaneous chemical products.....	372	100.0	23.7	13.3	48.3	-	14.5	.2	-	c
2899	Chemical products, n.e.c.....	370	100.0	23.9	13.2	48.2	-	14.5	.2	-	d
29	Petroleum and coal products.....	18,310	100.0	3.4	25.9	24.9	-	45.8	-	-	c
291	Products of petroleum refining.....	17,194	100.0	2.9	23.4	25.0	-	48.7	-	-	c
29111	Gasoline, jet fuels, and other high volatile petroleum fuels (except natural gasoline).....	5,737	100.0	1.3	25.7	43.1	-	29.8	-	.1	b
30	Rubber and miscellaneous plastics products.....	231	100.0	17.8	74.9	6.1	.3	-	.9	-	c
306	Miscellaneous fabricated rubber products.....	54	100.0	2.6	77.9	17.5	.3	-	1.7	-	e
30619	Fabricated rubber products, n.e.c....	53	100.0	2.7	77.2	18.0	.3	-	1.8	-	e
307	Miscellaneous plastic products.....	53	100.0	12.3	77.5	7.5	1.0	-	1.7	-	d
30719	Fabricated plastics products, n.e.c. (including footwear made wholly of plastic).....	29	100.0	4.0	88.3	4.6	.7	-	2.4	-	e
32	Stone, clay, and glass products.....	12,834	100.0	33.3	41.2	25.5	-	-	-	-	e
34	Fabricated metal products.....	1,448	100.0	5.8	75.3	18.0	.2	.1	.5	.1	d
342	Cutlery, hand tools, and general hardware.....	95	100.0	.1	73.0	22.8	.4	-	3.7	-	d
3429	Miscellaneous hardware.....	51	100.0	.1	63.3	32.9	.3	-	3.4	-	e
343	Plumbing fixtures and heating apparatus (except electric).....	81	100.0	2.4	76.4	20.5	.2	-	.4	.1	d
3433	Heating equipment (except electric)..	39	100.0	.8	69.0	29.9	-	-	.2	.1	e
344	Structural and miscellaneous metal products.....	1,065	100.0	5.6	79.5	14.6	-	.1	.1	.1	e
345	Bolts, nuts, screws, rivets, washers, and other industrial fasteners.....	10	100.0	.2	80.6	2.4	10.5	2.1	4.2	-	d
349	Miscellaneous fabricated metal products.....	67	100.0	.5	64.9	30.4	1.2	1.1	1.2	.7	c

See footnote at end of table.

TABLE 1. Tons of Shipments—Means of Transport and Commodity: 1963—Continued

TCC code	Commodity	Tons. (thous.)	Percent distribution by means of transport								Sampling variability code ¹
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown	
3494	Valves and pipe fittings (except plumbers' brass goods and fittings).	40	100.0	-	73.6	22.3	1.5	0.6	1.1	0.9	d
34941	Metal valves for piping, plumbing, and heating systems.....	19	100.0	-	73.8	23.3	1.0	.3	.8	.8	d
35	Machinery, except electrical.....	418	100.0	9.2	79.1	8.6	1.7	.1	1.2	.1	d
356	General industrial machinery and equipment.....	59	100.0	.2	86.0	7.7	2.3	.3	3.0	.5	d
359	Miscellaneous machinery and parts (except electrical).....	24	100.0	20.5	57.8	13.6	4.4	1.2	2.5	-	c
35999	Machinery and parts, n.e.c. (except electrical).....	24	100.0	20.9	58.8	12.2	4.4	1.2	2.5	-	c
36	Electrical machinery and equipment...	185	100.0	2.7	78.8	9.8	3.2	1.0	4.5	-	c
361	Electrical transmission and distribution equipment.....	17	100.0	2.2	63.7	17.4	5.4	.2	11.1	-	d
3611	Electrical measuring instruments and test equipment.....	5	100.0	4.8	59.0	4.9	11.1	.2	20.0	-	d
36113	Indicating, recording, and measuring instruments (electrical qualities or characteristics).....	4	100.0	3.3	60.4	5.3	9.5	-	21.5	-	e
362	Electrical industrial apparatus.....	44	100.0	3.5	85.9	7.4	1.5	.1	1.5	.1	d
3621	Motors and generators.....	42	100.0	3.6	86.4	7.7	1.2	-	1.1	-	d
364	Electric lighting and wiring equipment.....	32	100.0	.2	84.1	4.2	3.8	2.0	5.7	-	e
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records.	27	100.0	.3	83.2	8.2	5.2	1.7	1.3	.1	c
3651	Radio and television receiving sets (except communication types), and phonographs.....	8	100.0	1.2	88.0	7.5	1.2	.2	1.8	.1	c
3652	Phonograph records, record blanks, and prerecorded tapes.....	19	100.0	-	81.0	8.5	6.9	2.4	1.1	.1	d
367	Electronic components or accessories.	6	100.0	1.0	53.4	2.9	19.6	.5	22.5	.1	e
3679	Miscellaneous electronic components and accessories.....	5	100.0	.7	53.8	1.5	18.2	.4	25.4	-	d
37	Transportation equipment.....	974	100.0	33.5	58.3	6.2	.6	.6	.8	-	c
371	Motor vehicles and motor vehicle equipment.....	897	100.0	36.2	58.7	4.3	-	.5	.3	-	d
3711	Motor vehicles.....	822	100.0	39.4	59.9	-	-	.6	.1	-	d
3714	Motor vehicle parts and accessories..	53	100.0	-	57.5	39.2	.2	-	3.1	-	e
372	Aircraft and parts.....	21	100.0	4.5	42.3	30.6	18.2	.1	4.2	.1	d
3729	Aircraft parts and equipment, n.e.c..	19	100.0	4.1	38.5	33.1	19.5	.1	4.6	.1	d
379	Miscellaneous transportation equipment.....	51	100.0	-	62.5	31.1	4.0	2.4	-	-	e
38	Instruments, photographic goods, optical goods, watches, and clocks..	13	100.0	.4	71.5	5.8	9.0	.1	12.5	.7	d
381	Engineering, laboratory, and scientific instruments.....	1	100.0	3.7	69.4	5.6	10.2	1.0	9.8	.3	d
382	Measuring, controlling, and indicating instruments.....	10	100.0	-	75.7	5.0	9.4	-	8.9	1.0	d
39	Miscellaneous products of manufacturing.....	73	100.0	1.6	77.2	10.0	9.7	-	1.5	-	d

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 2. Ton-Miles of Shipments—Means of Transport and Commodity: 1963

TCC code	Commodity	Ton-miles (millions)	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
	Total.....	17,611	100.0	16.3	16.1	5.6	0.4	60.9	0.6	0.1
20	Food and kindred products.....	1,778	100.0	60.2	25.1	10.5	-	3.9	.2	.1
203	Canned and preserved fruits, vegetables, and seafoods.....	1,385	100.0	71.3	18.6	6.4	-	3.3	.2	.2
23	Apparel, including knit apparel, and other finished textile products.....	35	100.0	1.0	33.6	.1	26.1	-	39.2	-
25	Furniture and fixtures.....	96	100.0	55.2	32.4	2.4	1.6	-	.3	8.1
251	Household and office furniture.....	76	100.0	51.1	33.4	3.0	2.0	-	.2	10.3
2519	Household and office furniture, n.e.c.....	47	100.0	80.5	15.8	3.1	.3	-	.3	-
26	Pulp, paper, and allied products.....	142	100.0	29.8	46.4	23.2	.1	.5	-	-
27	Printed matter.....	2	100.0	.4	52.5	2.2	25.1	-	19.8	-
28	Chemicals and allied products.....	801	100.0	37.3	42.5	9.2	.3	4.4	6.2	.1
283	Drugs and medicines (including biological products, medicinal chemicals, botanical products, and pharmaceutical preparations).	14	100.0	-	87.8	4.6	1.3	1.1	5.2	-
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	283	100.0	19.6	62.2	.6	.3	-	17.3	-
2844	Perfumes, cosmetics, and other toilet preparations.....	22	100.0	-	95.1	-	3.6	-	1.3	-
285	Paints, varnishes, lacquers, enamels, and allied products.....	61	100.0	.8	59.7	21.7	1.2	16.6	-	-
289	Miscellaneous chemical products.....	118	100.0	45.7	30.0	7.9	.2	16.1	.1	-
2899	Chemical products, n.e.c.....	118	100.0	45.9	29.9	7.9	-	16.2	.1	-
29	Petroleum and coal products.....	11,161	100.0	2.0	3.0	2.9	-	92.1	-	-
291	Products of petroleum refining.....	10,977	100.0	1.5	2.2	2.6	-	93.7	-	-
29111	Gasoline, jet fuels, and other high volatile petroleum fuels (except natural gasoline).	763	100.0	1.5	9.8	21.0	-	67.7	-	-
30	Rubber and miscellaneous plastics products.	188	100.0	16.6	75.6	5.8	.7	-	1.3	-
306	Miscellaneous fabricated rubber products...	58	100.0	3.9	75.5	17.5	.5	-	2.5	.1
30619	Fabricated rubber products, n.e.c.....	56	100.0	4.1	74.4	18.2	.6	-	2.6	.1
307	Miscellaneous plastic products.....	38	100.0	10.7	83.0	1.5	2.4	-	2.4	-
30719	Fabricated plastics products, n.e.c. (including footwear made wholly of plastic).....	23	100.0	9.3	85.1	.4	1.5	-	3.7	-
32	Stone, clay, and glass products.....	1,041	100.0	44.6	40.0	15.1	-	.3	-	-
34	Fabricated metal products.....	348	100.0	11.1	76.5	8.0	1.5	.3	2.3	.3
342	Cutlery, hand tools, and general hardware...	77	100.0	.2	75.5	18.3	1.0	-	5.0	-
3429	Miscellaneous hardware.....	45	100.0	.1	64.0	29.1	.6	-	6.2	-
343	Plumbing fixtures and heating apparatus (except electric).....	35	100.0	9.4	87.1	2.2	.4	-	.6	.3
3433	Heating equipment (except electric).....	16	100.0	1.2	93.8	3.7	-	-	.7	.6
344	Structural and miscellaneous metal products.....	179	100.0	17.1	76.2	5.5	.1	.1	.8	.2
345	Bolts, nuts, screws, rivets, washers, and other industrial fasteners.....	10	100.0	.2	72.8	.1	19.5	3.5	3.9	-
349	Miscellaneous fabricated metal products....	29	100.0	.4	87.6	2.1	4.5	1.0	2.7	1.7
3494	Valves and pipe fittings (except plumbers' brass goods and fittings).....	20	100.0	-	90.8	1.6	4.1	.3	.8	2.4
34941	Metal valves for piping, plumbing, and heating systems.....	11	100.0	-	92.0	2.1	2.1	-	.5	3.3

TABLE 2. **Ton-Miles of Shipments—Means of Transport and Commodity: 1963**—Continued

TCC code	Commodity	Ton-miles (millions)	Percent distribution by means of transport							
			All means of transport	Rail	Motor carrier	Private truck	Air	Water	Other	Unknown
35	Machinery, except electrical.....	218	100.0	8.0	85.0	0.7	4.2	0.2	1.8	0.1
356	General industrial machinery and equipment.....	71	100.0	.2	92.0	.1	3.8	.2	3.5	.2
359	Miscellaneous machinery and parts (except electrical).....	34	100.0	29.8	62.2	.2	4.9	.6	2.3	-
35999	Machinery and parts, n.e.c. (except electrical).....	34	100.0	29.8	62.3	.1	4.9	.6	2.3	-
36	Electrical machinery and equipment.....	195	100.0	4.3	78.5	8.4	5.3	.4	3.1	-
361	Electrical transmission and distribution equipment.....	10	100.0	5.8	63.0	1.0	17.6	.8	11.8	-
3611	Electrical measuring instruments and test equipment.....	7	100.0	5.8	62.1	.9	19.2	.2	11.8	-
36113	Indicating, recording, and measuring instruments (electrical qualities or characteristics).....	5	100.0	3.1	67.0	1.1	18.1	-	10.7	-
362	Electrical industrial apparatus.....	43	100.0	6.2	85.0	3.1	2.4	.4	2.8	.1
3621	Motors and generators.....	41	100.0	6.5	86.3	3.3	1.8	-	2.1	-
364	Electric lighting and wiring equipment....	23	100.0	.5	80.1	1.1	11.4	1.0	5.9	-
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records.....	23	100.0	.3	86.0	1.2	9.8	.8	1.8	.1
3651	Radio and television receiving sets (except communication types), and phonographs.....	5	100.0	1.5	91.8	.3	3.6	.1	2.5	.2
3652	Phonograph records, record blanks, and prerecorded tapes.....	17	100.0	-	84.4	1.4	11.6	1.0	1.6	-
367	Electronic components or accessories.....	10	100.0	.6	68.7	.7	21.0	.8	8.0	.2
3679	Miscellaneous electronic components and accessories.....	9	100.0	.5	72.6	.6	17.7	.6	8.0	-
37	Transportation equipment.....	351	100.0	56.1	35.6	2.8	2.3	1.3	1.9	-
371	Motor vehicles and motor vehicle equipment.....	314	100.0	62.3	34.8	1.6	-	.4	.9	-
3711	Motor vehicles.....	282	100.0	68.7	30.8	-	-	.5	-	-
3714	Motor vehicle parts and accessories.....	22	100.0	-	80.9	6.3	.6	-	12.2	-
372	Aircraft and parts.....	14	100.0	7.6	59.9	1.0	24.2	.2	7.0	.1
3729	Aircraft parts and equipment, n.e.c.....	12	100.0	5.9	59.8	1.1	25.3	.2	7.6	.1
379	Miscellaneous transportation equipment....	20	100.0	.1	37.5	23.3	24.0	15.1	-	-
38	Instruments, photographic goods, optical goods, watches, and clocks.....	15	100.0	.8	74.6	.3	14.3	-	10.0	-
381	Engineering, laboratory, and scientific instruments.....	2	100.0	7.2	68.4	.1	13.2	-	11.0	.1
382	Measuring, controlling, and indicating instruments.....	11	100.0	-	80.8	.1	14.2	-	4.9	-
39	Miscellaneous products of manufacturing...	74	100.0	2.4	77.2	.3	18.6	-	1.5	-

TABLE 3. Tons of Shipments—Distance and Commodity:
1963

TCC code	Commodity	Tons (thous.)	Percent distribution by distance of shipment								Sampling variability code ¹
			All dis- tances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over	
	Total.....	49,573	100.0	57.3	12.2	2.1	14.2	3.9	0.8	9.5	
20	Food and kindred products.....	3,828	100.0	48.4	8.0	2.1	17.4	7.6	3.5	13.0	d
203	Canned and preserved fruits, vegetables, and seafoods.....	1,977	100.0	41.5	5.0	1.5	13.7	8.9	6.1	23.3	d
23	Apparel, including knit apparel, and other finished textile products....	30	100.0	5.7	4.1	2.9	14.3	19.4	16.4	37.2	e
25	Furniture and fixtures.....	152	100.0	38.9	3.7	2.4	18.9	13.8	3.7	18.6	d
251	Household and office furniture.....	127	100.0	41.9	3.8	2.9	16.2	14.2	3.2	17.8	d
2519	Household and office furniture, n.e.c.....	64	100.0	31.4	4.7	3.0	12.2	23.9	4.0	20.8	e
26	Pulp, paper, and allied products.....	1,022	100.0	63.0	13.2	4.8	16.0	2.5	.2	.3	e
27	Printed matter.....	5	100.0	73.0	.9	.1	2.6	6.6	4.6	12.2	e
28	Chemicals and allied products.....	3,146	100.0	56.9	6.0	1.5	22.3	8.7	1.2	3.4	d
283	Drugs and medicines (including biological products, medicinal chemicals, botanical products, and pharmaceutical preparations).....	46	100.0	62.2	5.3	3.7	11.0	11.4	2.7	3.7	e
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	990	100.0	43.1	3.5	4.2	31.7	15.7	.1	1.7	e
2844	Perfumes, cosmetics, and other toilet preparations.....	55	100.0	42.0	8.0	2.9	15.4	23.9	1.9	5.9	e
285	Paints, varnishes, lacquers, enamels, and allied products.....	228	100.0	44.8	3.9	-	37.2	11.5	2.0	.6	e
289	Miscellaneous chemical products.....	372	100.0	61.2	6.9	.1	19.1	2.6	1.1	9.0	c
2899	Chemical products, n.e.c.....	370	100.0	61.2	6.9	.1	19.1	2.6	1.1	9.0	d
29	Petroleum and coal products.....	18,310	100.0	44.8	15.6	1.1	13.9	4.4	-	20.2	c
291	Products of petroleum refining.....	17,194	100.0	44.6	15.2	.8	13.5	4.4	-	21.5	c
29111	Gasoline, jet fuels, and other high volatile petroleum fuels (except natural gasoline).....	5,737	100.0	60.5	30.5	.4	1.3	7.1	-	.2	b
30	Rubber and miscellaneous plastics products.....	231	100.0	12.1	3.5	2.5	19.7	29.0	20.4	12.8	c
306	Miscellaneous fabricated rubber products.....	54	100.0	7.4	1.1	3.1	15.3	16.2	27.8	29.1	e
30619	Fabricated rubber products, n.e.c....	53	100.0	6.9	1.0	3.2	15.8	16.8	27.6	28.7	e
307	Miscellaneous plastic products.....	53	100.0	22.8	6.2	1.1	31.1	7.6	14.7	16.5	d
30719	Fabricated plastics products, n.e.c. (including footwear made wholly of plastic).....	29	100.0	22.8	7.1	.5	29.0	7.4	11.6	21.6	e
32	Stone, clay, and glass products.....	12,834	100.0	79.6	12.7	3.2	3.9	.4	.1	.1	e
34	Fabricated metal products.....	1,448	100.0	51.8	14.1	5.7	18.3	4.6	2.2	3.3	d
342	Cutlery, hand tools, and general hardware.....	95	100.0	26.1	3.8	.3	20.3	11.7	18.6	19.2	d
3429	Miscellaneous hardware.....	51	100.0	16.0	5.9	.3	21.0	15.6	22.2	19.0	e
343	Plumbing fixtures and heating apparatus (except electric).....	81	100.0	45.3	7.0	5.2	21.8	4.8	3.2	12.7	d
3433	Heating equipment (except electric).	39	100.0	48.2	8.6	.4	21.3	6.7	4.9	9.9	e
344	Structural and miscellaneous metal products.....	1,065	100.0	51.9	16.8	6.9	19.6	3.8	.4	.6	e
345	Bolts, nuts, screws, rivets, washers, and other industrial fasteners.....	10	100.0	28.6	3.0	4.6	13.0	11.5	7.4	31.9	d
349	Miscellaneous fabricated metal products.....	67	100.0	49.3	8.7	3.6	12.1	9.0	8.5	8.8	c

See footnote at end of table.

TABLE 3. Tons of Shipments—Distance and Commodity:
1963—Continued

TCC code	Commodity	Tons (thous.)	Percent distribution by distance of shipment								Sampling variability code ¹
			All distances	Under 100 miles	100 to 199 miles	200 to 299 miles	300 to 499 miles	500 to 999 miles	1,000 to 1,499 miles	1,500 miles or over	
3494	Valves and pipe fittings (except plumbers' brass goods and fittings).	40	100.0	45.1	10.0	3.5	9.5	8.6	10.6	12.7	d
34941	Metal valves for piping, plumbing, and heating systems.....	19	100.0	43.3	15.9	2.8	4.3	6.5	9.4	17.8	d
35	Machinery, except electrical.....	418	100.0	28.2	4.4	.7	44.9	4.2	4.7	12.9	d
356	General industrial machinery and equipment.....	59	100.0	13.9	8.5	1.7	8.8	7.4	16.1	43.6	d
359	Miscellaneous machinery and parts (except electrical).....	24	100.0	16.7	3.9	.2	4.0	2.3	14.5	58.4	c
35999	Machinery and parts, n.e.c. (except electrical).....	24	100.0	15.4	3.8	.3	4.0	2.3	14.8	59.4	c
36	Electrical machinery and equipment...	185	100.0	20.1	1.6	.9	19.0	11.6	9.0	37.8	c
361	Electrical transmission and distribution equipment.....	17	100.0	55.8	1.7	.2	9.2	7.4	7.0	18.7	d
3611	Electrical measuring instruments and test equipment.....	5	100.0	24.0	1.2	.5	7.3	7.2	17.9	41.9	d
36113	Indicating, recording, and measuring instruments (electrical qualities or characteristics).....	4	100.0	24.9	1.2	.5	8.2	7.8	21.6	35.8	e
362	Electrical industrial apparatus.....	44	100.0	17.6	.8	2.0	29.9	9.8	9.4	30.5	d
3621	Motors and generators.....	42	100.0	16.9	.8	2.1	30.9	9.2	9.8	30.3	d
364	Electric lighting and wiring equipment.....	32	100.0	30.2	3.7	1.0	28.2	10.2	6.3	20.4	e
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records.	27	100.0	13.4	1.3	.7	22.9	28.1	20.6	13.0	c
3651	Radio and television receiving sets (except communication types), and phonographs.....	8	100.0	24.5	3.8	1.1	28.9	22.6	7.0	12.1	c
3652	Phonograph records, record blanks, and prerecorded tapes.....	19	100.0	8.6	.2	.5	20.4	30.5	26.4	13.4	d
367	Electronic components or accessories.	6	100.0	19.1	1.2	2.0	5.1	3.6	6.6	62.4	e
3679	Miscellaneous electronic components and accessories.....	5	100.0	17.6	1.2	.7	4.1	3.9	7.3	65.2	d
37	Transportation equipment.....	974	100.0	32.6	11.8	6.6	28.8	14.3	1.9	4.0	c
371	Motor vehicles and motor vehicle equipment.....	897	100.0	31.9	12.0	7.0	29.5	14.4	1.8	3.4	d
3711	Motor vehicles.....	822	100.0	30.8	12.3	7.0	30.4	15.1	1.4	3.0	d
3714	Motor vehicle parts and accessories..	53	100.0	42.7	12.8	7.5	16.3	6.8	4.4	9.5	e
372	Aircraft and parts.....	21	100.0	46.7	7.5	-	5.0	12.9	9.4	18.5	d
3729	Aircraft parts and equipment, n.e.c..	19	100.0	45.7	7.8	-	5.4	12.9	10.1	18.1	d
379	Miscellaneous transportation equipment.....	51	100.0	38.7	9.8	3.5	28.2	12.8	.2	6.8	e
38	Instruments, photographic goods, optical goods, watches, and clocks...	13	100.0	25.5	1.8	.3	10.6	10.5	5.0	46.3	d
381	Engineering, laboratory, and scientific instruments.....	1	100.0	18.5	4.6	.1	14.3	6.1	5.7	50.7	d
382	Measuring, controlling, and indicating instruments.....	10	100.0	28.3	1.3	.2	9.7	5.3	5.1	50.1	d
39	Miscellaneous products of manufacturing.....	73	100.0	33.0	1.5	1.9	14.1	3.7	4.4	41.4	d

¹Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963

TCC code	Commodity	Tons (thous.)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5	6	7	8
	Total.....	49,573	100.0	0.1	-	0.3	6.8	-	0.2	-	-
20	Food and kindred products.....	3,828	100.0	.8	-	1.2	1.1	0.2	-	-	-
203	Canned and preserved fruits, vegetables, and seafoods.....	1,977	100.0	1.4	-	2.4	2.1	.1	-	-	-
23	Apparel, including knit apparel, and other finished textile products.....	30	100.0	.4	0.1	3.8	.8	2.0	.6	-	0.1
25	Furniture and fixtures.....	152	100.0	1.5	.1	1.5	1.1	.3	-	-	-
251	Household and office furniture.....	127	100.0	1.8	-	.4	.9	-	-	-	-
2519	Household and office furniture, n.e.c.	64	100.0	3.0	-	.3	-	-	-	-	-
26	Pulp, paper, and allied products.....	1,022	100.0	-	-	-	-	-	-	-	-
27	Printed matter.....	5	100.0	.1	-	.6	-	1.1	-	-	-
28	Chemicals and allied products.....	3,146	100.0	-	-	-	.6	.2	.3	-	-
283	Drugs and medicines (including bio- logical products, medicinal chemicals, botanical products, and pharmaceutical preparations).....	46	100.0	-	-	.1	-	-	-	-	-
284	Soap and detergents, cleaning prep- arations, perfumes, cosmetics, and other toilet preparations.....	990	100.0	-	-	-	-	-	-	-	-
2844	Perfumes, cosmetics, and other toilet preparations.....	55	100.0	-	-	.7	-	.1	-	-	-
285	Paints, varnishes, lacquers, enamels, and allied products.....	228	100.0	-	-	-	-	.1	-	-	-
289	Miscellaneous chemical products.....	372	100.0	-	-	.1	4.7	-	.2	-	-
2899	Chemical products, n.e.c.....	370	100.0	-	-	.1	4.7	-	.2	-	-
29	Petroleum and coal products.....	18,310	100.0	-	-	.3	17.8	-	.6	-	-
291	Products of petroleum refining.....	17,194	100.0	-	-	.4	19.0	-	.6	-	-
29111	Gasoline, jet fuels, and other high volatile petroleum fuels (except natural gasoline).....	5,737	100.0	-	-	-	-	-	-	-	-
30	Rubber and miscellaneous plastics products.....	231	100.0	.2	.1	.4	.3	.2	-	-	-
306	Miscellaneous fabricated rubber products.....	54	100.0	.3	-	.6	1.1	.1	-	0.1	-
30619	Fabricated rubber products, n.e.c.....	53	100.0	.4	-	.2	.9	.1	-	.1	-
307	Miscellaneous plastic products.....	53	100.0	-	.2	1.0	-	.8	.1	-	-
30719	Fabricated plastics products, n.e.c. (including footwear made wholly of plastic).....	29	100.0	-	.4	1.7	-	.2	.3	-	-
32	Stone, clay, and glass products.....	12,834	100.0	-	-	-	-	-	-	-	-
34	Fabricated metal products.....	1,448	100.0	.1	.1	.2	.2	-	.1	-	-
342	Cutlery, hand tools, and general hardware.....	95	100.0	.3	.3	.5	1.2	-	-	-	.1
3429	Miscellaneous hardware.....	51	100.0	.5	.5	.8	-	.1	-	-	-
343	Plumbing fixtures and heating apparatus (except electric).....	81	100.0	-	-	.5	.4	-	-	-	-
3433	Heating equipment (except electric)...	39	100.0	-	-	.5	-	-	-	-	-
344	Structural and miscellaneous metal products.....	1,065	100.0	-	-	.1	.1	-	-	-	-
345	Bolts, nuts, screws, rivets, washers, and other industrial fasteners.....	10	100.0	.6	4.7	6.3	.1	.8	.1	-	-
349	Miscellaneous fabricated metal products.....	67	100.0	.2	.1	.2	.1	.5	-	-	.1

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15	16	17	18
	Total.....	-	-	-	-	0.1	-	0.2	-	0.1	0.1
20	Food and kindred products.....	0.1	0.1	0.1	-	1.0	0.2	1.1	0.1	.7	.4
203	Canned and preserved fruits, vegetables, and seafoods.....	.2	.1	.1	-	1.7	.3	1.9	.1	1.3	.7
23	Apparel, including knit apparel, and other finished textile products.....	.2	.4	.4	0.4	5.5	.7	1.7	.1	-	.7
25	Furniture and fixtures.....	-	1.4	2.0	-	.4	.1	1.3	.8	1.4	1.2
251	Household and office furniture.....	-	1.4	2.4	-	.4	.1	1.1	1.0	1.3	1.5
2519	Household and office furniture, n.e.c.	-	2.7	3.0	-	-	-	2.1	-	2.7	2.7
26	Pulp, paper, and allied products.....	-	-	-	.2	-	-	-	-	-	-
27	Printed matter.....	-	.1	.6	.6	.9	-	.6	-	.2	1.6
28	Chemicals and allied products.....	-	-	-	-	.1	.2	.3	-	-	-
283	Drugs and medicines (including biological products, medicinal chemicals, botanical products, and pharmaceutical preparations).....	-	-	.1	-	1.7	-	.3	-	-	-
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	-	-	-	-	-	.6	.9	-	-	-
2844	Perfumes, cosmetics, and other toilet preparations.....	-	-	-	-	.1	-	4.3	-	-	-
285	Paints, varnishes, lacquers, enamels, and allied products.....	-	-	-	-	-	-	.1	-	.1	-
289	Miscellaneous chemical products.....	-	-	-	-	.1	-	-	-	-	.1
2899	Chemical products, n.e.c.....	-	-	-	-	.1	-	-	-	-	.1
29	Petroleum and coal products.....	-	-	-	-	-	-	.1	-	-	-
291	Products of petroleum refining.....	-	-	-	-	-	-	.1	-	-	-
29111	Gasoline, jet fuels, and other high volatile petroleum fuels (except natural gasoline).....	-	-	-	-	-	-	-	-	-	-
30	Rubber and miscellaneous plastics products.....	.2	.2	.1	.5	.6	-	1.2	.1	1.4	.9
306	Miscellaneous fabricated rubber products.....	-	.2	.1	-	.8	-	3.1	.1	5.0	-
30619	Fabricated rubber products, n.e.c.....	-	.1	.1	-	.8	-	3.0	.1	5.1	-
307	Miscellaneous plastic products.....	.8	.5	-	2.1	.8	-	1.7	-	.5	.2
30719	Fabricated plastics products, n.e.c. (including footwear made wholly of plastic).....	1.2	.5	.1	3.7	1.4	-	3.1	-	-	.4
32	Stone, clay, and glass products.....	-	-	-	-	-	-	-	-	-	-
34	Fabricated metal products.....	-	-	.1	-	.3	.3	.4	-	-	-
342	Cutlery, hand tools, and general hardware.....	.1	.1	.2	.1	.5	3.6	.4	-	.1	.2
3429	Miscellaneous hardware.....	-	.1	-	-	.5	6.5	.6	-	-	.1
343	Plumbing fixtures and heating apparatus (except electric).....	.1	-	.2	-	3.2	-	5.5	.1	.1	-
3433	Heating equipment (except electric)...	.3	-	.1	-	5.0	-	.2	.3	.1	-
344	Structural and miscellaneous metal products.....	-	-	-	-	-	-	-	-	-	-
345	Bolts, nuts, screws, rivets, washers, and other industrial fasteners.....	-	.1	.9	-	.8	3.2	.4	-	-	.9
349	Miscellaneous fabricated metal products.....	-	-	1.4	-	.9	.2	.3	.3	-	.1

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									Sampling variability code ³
		19	20	21	22	23	24	25 ²	30	50	
	Total.....	-	0.1	0.2	0.1	0.6	9.7	53.1	14.5	13.8	
20	Food and kindred products.....	-	.4	.4	.5	1.9	6.8	46.7	27.1	9.1	d
203	Canned and preserved fruits, vegetables, and seafoods.....	-	.5	.7	.9	2.3	6.3	39.6	29.1	8.2	d
23	Apparel, including knit apparel, and other finished textile products.....	0.9	1.1	3.0	.5	2.3	9.5	4.9	44.7	15.2	e
25	Furniture and fixtures.....	.5	.6	1.1	1.7	4.6	10.8	37.4	17.7	12.5	d
251	Household and office furniture.....	.6	.7	1.1	1.9	5.1	8.8	40.1	16.0	13.4	d
2519	Household and office furniture, n.e.c.	1.2	1.2	.1	3.6	9.3	7.0	29.8	17.8	13.5	e
26	Pulp, paper, and allied products.....	-	-	-	-	1.1	2.1	63.2	16.8	16.6	e
27	Printed matter.....	.2	.4	.4	.3	.3	2.5	72.6	11.1	5.8	e
28	Chemicals and allied products.....	-	-	.6	.2	.6	10.4	50.9	22.9	12.7	d
283	Drugs and medicines (including biological products, medicinal chemicals, botanical products, and pharmaceutical preparations).....	-	.3	.2	.4	6.7	7.4	61.5	12.4	8.9	e
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	-	-	-	.1	1.1	8.4	38.5	37.8	12.6	e
2844	Perfumes, cosmetics, and other toilet preparations.....	.3	-	.1	.1	4.2	6.8	36.7	32.3	14.3	e
285	Paints, varnishes, lacquers, enamels, and allied products.....	.1	-	1.9	.1	.4	15.4	44.5	10.7	26.6	e
289	Miscellaneous chemical products.....	-	-	.2	-	1.0	19.0	56.8	9.4	8.4	c
2899	Chemical products, n.e.c.....	-	-	.2	-	1.0	19.0	56.9	9.3	8.4	d
29	Petroleum and coal products.....	-	-	-	-	.3	10.6	41.8	10.3	18.2	c
291	Products of petroleum refining.....	-	-	-	-	.3	10.8	42.1	8.7	18.0	c
29111	Gasoline, jet fuels, and other high volatile petroleum fuels (except natural gasoline).....	-	-	-	-	-	1.2	53.9	8.2	36.7	b
30	Rubber and miscellaneous plastics products.....	.2	4.0	.9	3.8	2.5	15.0	11.5	45.5	10.2	c
306	Miscellaneous fabricated rubber products.....	.2	7.0	.1	10.2	.7	15.1	7.4	30.7	17.1	e
30619	Fabricated rubber products, n.e.c.....	.2	6.2	.1	10.5	.7	15.6	6.8	31.6	17.4	e
307	Miscellaneous plastic products.....	.2	1.1	2.5	1.3	1.5	23.9	21.8	29.1	9.9	d
30719	Fabricated plastics products, n.e.c (including footwear made wholly of plastic).....	.1	2.0	3.9	1.5	1.6	21.2	22.1	25.7	8.9	e
32	Stone, clay, and glass products.....	-	-	-	-	.2	1.0	70.7	17.2	10.9	e
34	Fabricated metal products.....	.3	.2	.6	.2	.9	15.1	47.6	19.7	13.6	d
342	Cutlery, hand tools, and general hardware.....	2.9	2.0	8.4	1.3	5.8	13.6	14.1	24.7	19.5	d
3429	Miscellaneous hardware.....	2.2	2.2	13.0	1.0	9.6	14.2	13.8	21.6	12.7	e
343	Plumbing fixtures and heating apparatus (except electric).....	-	-	-	.2	1.6	15.8	36.9	20.8	14.6	d
3433	Heating equipment (except electric)...	-	-	-	-	1.7	18.3	44.9	18.8	9.8	e
344	Structural and miscellaneous metal products.....	-	-	-	.1	.3	17.0	49.3	19.4	13.7	e
345	Bolts, nuts, screws, rivets, washers, and other industrial fasteners.....	5.8	.7	-	.3	7.5	11.6	28.1	23.7	3.4	d
349	Miscellaneous fabricated metal products.....	.2	1.0	.8	.8	1.7	7.2	41.8	23.9	18.2	c

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Tons (thous.)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5	6	7	8
3494	Valves and pipe fittings (except plumbers' brass goods and fittings)...	40	100.0	0.4	-	0.3	0.1	0.8	-	-	0.1
34941	Metal valves for piping, plumbing, and heating systems.....	19	100.0	.7	-	.4	-	.9	-	-	.2
35	Machinery, except electrical.....	418	100.0	.1	0.2	1.8	.1	.2	0.3	-	.1
356	General industrial machinery and equipment.....	59	100.0	.3	.8	10.4	.3	.5	-	-	.2
359	Miscellaneous machinery and parts (except electrical).....	24	100.0	.2	.8	2.4	.2	1.7	4.5	-	.8
35999	Machinery and parts, n.e.c. (except electrical).....	24	100.0	.2	.8	2.4	.2	1.7	4.6	-	.8
36	Electrical machinery and equipment....	185	100.0	.4	.6	3.1	1.6	.5	.2	2.8	.1
361	Electrical transmission and distribution equipment.....	17	100.0	1.8	.5	2.9	.5	.4	.5	.2	-
3611	Electrical measuring instruments and test equipment.....	5	100.0	5.0	1.0	6.0	1.6	1.1	1.4	.6	-
36113	Indicating, recording, and measuring instruments (electrical qualities or characteristics).....	4	100.0	5.7	.2	1.7	1.8	1.1	1.2	-	-
362	Electrical industrial apparatus.....	44	100.0	-	1.2	1.4	-	.7	-	.8	-
3621	Motors and generators.....	42	100.0	-	1.3	1.1	-	.7	-	.5	-
364	Electric lighting and wiring equipment.....	32	100.0	2.	.1	5.8	.2	.1	.4	-	-
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records..	27	100.0	.6	.4	.9	.7	.7	.3	-	.1
3651	Radio and television receiving sets (except communication types), and phonographs.....	8	100.0	.1	-	1.4	-	1.5	.8	-	.2
3652	Phonograph records, record blanks, and prerecorded tapes.....	19	100.0	.8	.6	.7	1.0	.3	.1	-	.1
367	Electronic components or accessories..	6	100.0	2.5	4.3	5.4	.9	1.4	.2	-	.2
3679	Miscellaneous electronic components and accessories.....	5	100.0	2.7	4.6	4.3	1.0	.8	.1	-	-
37	Transportation equipment.....	974	100.0	-	-	.4	.4	.1	-	-	-
371	Motor vehicles and motor vehicle equipment.....	897	100.0	-	-	.3	.4	-	-	-	-
3711	Motor vehicles.....	822	100.0	-	-	.2	.4	-	-	-	-
3714	Motor vehicle parts and accessories...	53	100.0	.6	.3	2.2	.2	.7	-	-	-
372	Aircraft and parts.....	21	100.0	-	.1	2.7	.1	.8	-	-	.1
3729	Aircraft parts and equipment, n.e.c...	19	100.0	-	.1	3.0	.1	.9	-	-	.2
379	Miscellaneous transportation equipment.....	51	100.0	-	.3	2.4	-	-	-	-	-
38	Instruments, photographic goods, optical goods, watches, and clocks...	13	100.0	1.0	2.0	2.9	.2	.9	1.4	-	.3
381	Engineering, laboratory, and scientific instruments.....	1	100.0	1.9	.2	5.0	.4	5.5	.5	-	.8
382	Measuring, controlling, and indicating instruments.....	10	100.0	.2	2.7	2.3	.2	.4	1.7	-	-
39	Miscellaneous products of manufacturing.....	73	100.0	1.2	.5	5.5	4.7	1.5	.2	.1	.1

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15	16	17	18
3494	Valves and pipe fittings (except plumbers' brass goods and fittings).	0.1	-	2.4	-	1.6	0.1	0.5	0.5	0.1	0.1
34941	Metal valves for piping, plumbing, and heating systems.....	.1	-	4.7	0.1	1.7	.1	.5	1.0	.2	.1
35	Machinery, except electrical.....	.3	0.1	1.6	.1	.4	.1	.8	.2	1.4	.2
356	General industrial machinery and equipment.....	1.8	.4	.3	.5	.4	.7	4.9	1.7	.5	.7
359	Miscellaneous machinery and parts (except electrical).....	-	.2	20.2	.2	5.2	.1	.6	.2	1.4	.5
35999	Machinery and parts, n.e.c. (except electrical).....	-	.2	20.6	.2	5.3	.1	.6	.2	1.4	.5
36	Electrical machinery and equipment...	-	.2	.5	-	.4	.2	12.4	.2	.7	.8
361	Electrical transmission and distribution equipment.....	-	.3	.1	-	.6	.4	.5	.2	.3	.2
3611	Electrical measuring instruments and test equipment.....	.1	.7	.2	.1	1.1	.5	1.4	.6	.4	.4
36113	Indicating, recording, and measuring instruments (electrical qualities or characteristics).....	-	.6	.2	.1	1.1	.7	1.4	.6	.4	.3
362	Electrical industrial apparatus.....	-	.2	1.6	.1	-	-	4.3	-	-	3.0
3621	Motors and generators.....	-	.2	1.5	-	-	-	4.4	-	-	3.1
364	Electric lighting and wiring equipment.....	-	.6	.5	-	.5	.1	1.3	.1	1.0	-
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records.	.1	.1	.2	.1	.4	.4	1.1	.5	1.4	.4
3651	Radio and television receiving sets (except communication types), and phonographs.....	-	-	.4	.1	.2	.1	1.0	-	1.4	.2
3652	Phonograph records, record blanks, and prerecorded tapes.....	.1	.1	.1	-	.5	.5	1.2	.8	1.5	.5
367	Electronic components or accessories.	.3	.2	.1	.2	1.9	.9	4.7	1.0	.3	-
3679	Miscellaneous electronic components and accessories.....	.2	.1	.1	-	2.1	1.0	5.1	1.2	.2	-
37	Transportation equipment.....	.2	-	-	-	.2	-	-	-	-	-
371	Motor vehicles and motor vehicle equipment.....	.2	-	-	-	.2	-	-	-	-	-
3711	Motor vehicles.....	.2	-	-	-	.1	-	-	-	-	-
3714	Motor vehicle parts and accessories..	-	-	.3	.1	.5	-	.7	.1	.1	.1
372	Aircraft and parts.....	-	-	-	-	.1	-	-	-	.1	2.1
3729	Aircraft parts and equipment, n.e.c..	-	-	-	-	.1	-	-	-	.1	2.3
379	Miscellaneous transportation equipment.....	-	-	-	-	-	-	-	-	-	-
38	Instruments, photographic goods, optical goods, watches, and clocks..	.2	2.4	.3	.6	.7	.5	.9	1.0	.9	.1
381	Engineering, laboratory, and scientific instruments.....	1.6	1.0	.5	2.8	.6	.1	2.4	-	.1	.2
382	Measuring, controlling, and indicating instruments.....	-	3.0	.2	.3	.8	.5	.4	1.4	-	.1
39	Miscellaneous products of manufacturing.....	-	.1	.3	.2	1.2	8.6	2.9	.3	1.3	.2

See footnotes at end of table.

TABLE 4. Tons of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									Sampling variability code ³
		19	20	21	22	23	24	25 ²	30	50	
3494	Valves and pipe fittings (except plumbers' brass goods and fittings)..	0.2	1.7	1.4	0.4	1.6	3.1	32.2	25.9	26.4	d
34941	Metal valves for piping, plumbing, and heating systems.....	-	1.2	1.5	.1	.1	2.7	16.8	26.2	40.7	d
35	Machinery, except electrical.....	.6	.2	1.8	.2	.1	29.9	27.5	24.8	6.9	d
356	General industrial machinery and equipment.....	2.9	1.1	5.9	.2	.7	4.0	13.0	28.9	18.9	d
359	Miscellaneous machinery and parts (except electrical).....	.1	.1	-	.9	.6	1.7	16.7	23.8	16.9	c
35999	Machinery and parts, n.e.c. (except electrical).....	.1	.1	-	1.0	.6	1.7	15.3	24.2	17.2	c
36	Electrical machinery and equipment....	.2	3.2	.7	1.2	3.0	14.3	19.2	22.2	11.3	c
361	Electrical transmission and distribution equipment.....	.1	.2	2.0	.8	.5	5.7	54.5	18.1	8.7	d
3611	Electrical measuring instruments and test equipment.....	.2	.4	5.6	.2	.8	6.7	21.6	26.5	15.8	d
36113	Indicating, recording, and measuring instruments (electrical qualities or characteristics).....	.3	.3	6.7	.2	.7	7.5	22.3	29.4	15.5	e
362	Electrical industrial apparatus.....	-	-	.1	.1	1.6	26.6	17.6	20.9	19.8	d
3621	Motors and generators.....	-	-	.1	.1	1.0	27.4	16.9	21.3	20.4	d
364	Electric lighting and wiring equipment.....	.4	1.6	1.6	.1	.6	19.9	31.7	20.9	12.3	e
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records..	.2	8.9	.9	5.4	10.3	15.4	10.2	33.7	6.6	c
3651	Radio and television receiving sets (except communication types), and phonographs.....	-	4.9	-	3.3	3.0	21.1	23.7	26.4	10.2	c
3652	Phonograph records, record blanks, and prerecorded tapes.....	.3	10.6	1.3	6.3	13.4	12.8	4.5	36.9	5.0	d
367	Electronic components or accessories..	.2	4.5	1.3	.3	.5	4.4	17.5	13.6	33.2	e
3679	Miscellaneous electronic components and accessories.....	.2	5.3	1.6	.4	.3	3.2	17.5	8.7	39.3	d
37	Transportation equipment.....	-	.6	.3	1.8	3.1	19.5	31.0	27.3	15.1	c
371	Motor vehicles and motor vehicle equipment.....	-	.6	.4	1.9	3.1	20.6	30.3	27.0	15.0	d
3711	Motor vehicles.....	-	.4	.2	2.0	3.2	21.7	29.1	27.7	14.8	d
3714	Motor vehicle parts and accessories...	.1	.1	3.3	.3	1.4	5.6	41.1	22.1	20.1	e
372	Aircraft and parts.....	1.1	4.4	-	1.1	10.9	1.5	46.7	23.2	5.0	d
3729	Aircraft parts and equipment, n.e.c....	1.2	4.7	-	1.1	10.7	1.6	45.8	23.3	4.8	d
379	Miscellaneous transportation equipment.....	-	-	-	.1	1.1	9.7	35.7	30.8	19.9	e
38	Instruments, photographic goods, optical goods, watches, and clocks...	21.1	.7	.7	1.1	1.5	9.0	24.9	11.3	13.4	d
381	Engineering, laboratory, and scientific instruments.....	.4	1.1	2.5	2.5	2.1	11.4	18.2	18.5	19.7	d
382	Measuring, controlling, and indicating instruments.....	28.7	.6	.7	1.0	1.2	8.3	27.7	9.6	8.0	d
39	Miscellaneous products of manufacturing.....	.3	1.5	.6	.7	1.0	12.6	31.7	14.8	7.9	d

¹See description of production areas on page 313.²Includes only those shipments that originated in one city in this area and terminated in another city in this area.³Code letter indicates a sampling variability range as follows: a, 0-9 percent; b, 10-19 percent; c, 20-29 percent; d, 30-49 percent; e, 50 percent or more.

TABLE 5. Ton-Miles of Shipments—Production Area Destination and Commodity: 1963

TCC code	Commodity	Ton-miles (millions)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5	6	7	8
	Total.....	17,611	100.0	0.6	0.1	2.0	46.3	0.3	1.6	0.1	-
20	Food and kindred products.....	1,778	100.0	4.6	-	6.4	5.7	1.1	-	-	-
203	Canned and preserved fruits, vegetables, and seafoods.....	1,385	100.0	5.2	-	8.3	7.1	.2	-	-	-
23	Apparel, including knit apparel, and other finished textile products.....	35	100.0	.9	.2	7.9	1.7	4.0	1.3	-	0.3
25	Furniture and fixtures.....	96	100.0	5.9	.5	6.0	4.1	1.3	.1	-	-
251	Household and office furniture.....	76	100.0	7.5	-	1.5	3.7	-	.1	-	-
2519	Household and office furniture, n.e.c.	47	100.0	10.6	-	.9	-	-	-	-	-
26	Pulp, paper, and allied products.....	142	100.0	-	-	.1	.4	-	-	-	-
27	Printed matter.....	2	100.0	.6	.2	3.4	.3	6.4	-	-	.2
28	Chemicals and allied products.....	801	100.0	-	-	.3	5.4	2.2	2.8	-	-
283	Drugs and medicines (including biological products, medicinal chemicals, botanical products, and pharmaceutical preparations).....	14	100.0	-	.4	.7	.4	.3	-	.1	-
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	283	100.0	-	-	.3	-	-	-	-	-
2844	Perfumes, cosmetics, and other toilet preparations.....	22	100.0	.1	-	4.4	.3	.6	-	-	-
285	Paints, varnishes, lacquers, enamels, and allied products.....	61	100.0	.1	.1	.4	.3	.7	-	-	-
289	Miscellaneous chemical products.....	118	100.0	-	-	.6	36.1	-	1.7	-	-
2899	Chemical products, n.e.c.....	118	100.0	-	-	.6	36.1	-	1.7	-	-
29	Petroleum and coal products.....	11,161	100.0	-	-	1.4	71.4	-	2.2	-	-
291	Products of petroleum refining.....	10,977	100.0	-	-	1.4	72.6	-	2.2	-	-
29111	Gasoline, jet fuels, and other high volatile petroleum fuels (except natural gasoline).....	763	100.0	-	-	-	-	-	-	-	-
30	Rubber and miscellaneous plastics products.....	188	100.0	.7	.2	1.2	1.0	.7	.1	.1	-
306	Miscellaneous fabricated rubber products.....	58	100.0	.8	.1	1.4	2.4	.2	-	.2	-
30619	Fabricated rubber products, n.e.c.....	56	100.0	.8	.1	.4	2.0	.1	-	.2	-
307	Miscellaneous plastic products.....	38	100.0	-	.7	3.5	.1	2.5	.5	-	-
30719	Fabricated plastics products, n.e.c. (including footwear made wholly of plastic).....	23	100.0	-	1.1	5.3	-	.6	.8	-	-
32	Stone, clay, and glass products.....	1,041	100.0	-	-	-	.5	-	-	-	-
34	Fabricated metal products.....	348	100.0	.8	.7	1.9	1.7	.3	.7	-	.1
342	Cutlery, hand tools, and general hardware.....	77	100.0	.9	.9	1.6	3.6	.1	-	-	.3
3429	Miscellaneous hardware.....	45	100.0	1.5	1.5	2.3	.1	.2	-	-	-
343	Plumbing fixtures and heating apparatus (except electric).....	35	100.0	.1	.1	2.6	2.5	.1	-	-	-
3433	Heating equipment (except electric)...	16	100.0	-	.1	3.1	-	.2	-	-	-
344	Structural and miscellaneous metal products.....	179	100.0	.6	.1	1.3	1.2	-	-	-	.1
345	Bolts, nuts, screws, rivets, washers, and other industrial fasteners.....	10	100.0	1.7	12.7	16.5	.4	2.1	.2	-	.1
349	Miscellaneous fabricated metal products.....	29	100.0	1.4	.9	1.3	.8	2.8	-	-	.4

See footnotes at end of table.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15	16	17	18
	Total.....	0.2	0.1	0.2	0.1	0.6	0.3	1.0	0.1	0.4	0.2
20	Food and kindred products.....	.6	.3	.4	.1	4.1	.6	4.0	.2	2.4	1.3
203	Canned and preserved fruits, vegetables, and seafoods.....	.7	.3	.2	-	4.6	.7	4.6	.3	2.8	1.7
23	Apparel, including knit apparel, and other finished textile products.....	.5	.8	.8	.7	9.0	1.0	2.6	.2	-	.9
25	Furniture and fixtures.....	.1	4.8	6.4	-	1.2	.3	3.7	2.2	3.4	3.0
251	Household and office furniture.....	.1	4.9	8.1	-	1.5	.2	3.3	2.8	3.4	3.9
2519	Household and office furniture, n.e.c.	.1	8.0	8.3	-	-	-	5.0	-	5.5	5.8
26	Pulp, paper, and allied products.....	-	-	-	3.0	-	-	-	.1	-	-
27	Printed matter.....	.1	.3	2.8	3.0	4.3	.2	2.7	-	.6	6.3
28	Chemicals and allied products.....	-	-	-	-	.5	1.5	2.0	-	-	.1
283	Drugs and medicines (including biological products, medicinal chemicals, botanical products, and pharmaceutical preparations).....	.1	-	.4	-	11.5	-	1.7	-	.1	.1
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	-	-	-	-	.1	4.1	5.4	-	-	-
2844	Perfumes, cosmetics, and other toilet preparations.....	-	-	-	-	.3	.2	18.7	-	-	-
285	Paints, varnishes, lacquers, enamels, and allied products.....	-	.1	-	-	-	-	.9	-	.4	.1
289	Miscellaneous chemical products.....	-	-	-	-	.8	.3	-	-	-	.3
2899	Chemical products, n.e.c.....	-	-	-	-	.8	.3	-	-	-	.3
29	Petroleum and coal products.....	.1	-	-	-	-	-	.2	-	-	-
291	Products of petroleum refining.....	.1	-	-	-	-	-	.2	-	-	-
29111	Gasoline, jet fuels, and other high volatile petroleum fuels (except natural gasoline).....	-	-	-	-	-	-	-	-	-	-
30	Rubber and miscellaneous plastics products.....	.6	.6	.3	1.2	1.5	.1	2.5	.3	2.6	1.7
306	Miscellaneous fabricated rubber products.....	.1	.4	.2	-	1.4	-	5.0	.2	7.0	-
30619	Fabricated rubber products, n.e.c.....	.1	.1	.2	-	1.5	-	4.9	.2	7.3	-
307	Miscellaneous plastic products.....	2.6	1.6	.1	6.0	2.2	-	4.1	-	1.0	.5
30719	Fabricated plastics products, n.e.c. (including footwear made wholly of plastic).....	3.7	1.3	.2	9.8	3.5	-	6.9	-	-	.7
32	Stone, clay, and glass products.....	-	-	.2	-	.1	-	-	-	-	-
34	Fabricated metal products.....	.1	.1	.9	.3	2.2	2.3	2.8	.2	.1	.2
342	Cutlery, hand tools, and general hardware.....	.2	.3	.6	.2	1.3	8.4	.9	-	.3	.3
3429	Miscellaneous hardware.....	-	.2	.1	-	1.1	13.7	1.2	-	.1	.2
343	Plumbing fixtures and heating apparatus (except electric).....	.8	-	.7	-	14.5	-	22.2	.6	.2	.1
3433	Heating equipment (except electric)...	1.7	-	.4	-	23.3	.1	.7	1.2	.2	.2
344	Structural and miscellaneous metal products.....	-	-	-	-	.1	.3	.2	-	-	.1
345	Bolts, nuts, screws, rivets, washers, and other industrial fasteners.....	-	.2	2.0	-	1.7	6.5	.7	-	.1	1.5
349	Miscellaneous fabricated metal products.....	.2	.1	6.8	.1	4.4	1.0	1.2	1.1	.2	.2

See footnotes at end of table.

TABLE 5. Ton-Miles of Shipments—Production Area Destination and Commodity: 1963—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued								
		19	20	21	22	23	24	25 ²	30	50
	Total.....	0.2	0.4	0.6	0.3	1.5	9.2	4.5	16.8	12.3
20	Food and kindred products.....	-	1.1	1.2	.8	4.0	5.1	2.6	38.9	14.5
203	Canned and preserved fruits, vegetables, and seafoods.....	-	1.0	1.4	1.0	3.1	3.2	1.3	37.7	14.6
23	Apparel, including knit apparel, and other finished textile products.....	1.5	1.1	3.4	.4	1.9	2.7	.1	42.5	13.6
25	Furniture and fixtures.....	1.5	1.1	2.5	2.2	7.1	5.9	1.5	15.3	19.9
251	Household and office furniture.....	2.0	1.4	2.6	2.6	8.4	5.0	1.7	12.4	22.9
2519	Household and office furniture, n.e.c.	3.2	2.0	.1	4.0	12.4	3.4	1.1	12.3	17.3
26	Pulp, paper, and allied products.....	-	.2	-	.1	7.4	5.0	15.9	38.8	29.0
27	Printed matter.....	1.0	1.2	1.2	.6	.7	2.1	5.8	31.6	24.4
28	Chemicals and allied products.....	.1	.1	3.1	.5	2.2	14.0	5.0	33.8	26.4
283	Drugs and medicines (including biological products, medicinal chemicals, botanical products, and pharmaceutical preparations).....	.1	1.1	.7	1.0	21.6	9.7	9.8	25.2	15.0
284	Soap and detergents, cleaning preparations, perfumes, cosmetics, and other toilet preparations.....	.1	-	-	.4	3.5	10.4	3.2	51.6	20.9
2844	Perfumes, cosmetics, and other toilet preparations.....	1.5	.1	.4	.2	9.9	5.6	1.8	33.3	22.6
285	Paints, varnishes, lacquers, enamels, and allied products.....	.5	.1	9.4	.2	1.4	19.4	3.2	16.5	46.2
289	Miscellaneous chemical products.....	-	.1	.8	-	3.1	20.8	3.7	9.1	22.6
2899	Chemical products, n.e.c.....	-	.1	.8	-	3.1	20.9	3.7	9.0	22.6
29	Petroleum and coal products.....	-	-	-	-	.5	5.6	2.0	8.1	8.5
291	Products of petroleum refining.....	-	-	-	-	.5	5.5	1.9	7.4	8.2
29111	Gasoline, jet fuels, and other high volatile petroleum fuels (except natural gasoline).....	-	-	-	-	-	3.2	10.4	6.9	79.5
30	Rubber and miscellaneous plastics products.....	.4	6.1	1.5	3.9	3.0	6.1	.3	51.2	12.1
306	Miscellaneous fabricated rubber products.....	.4	8.2	.2	7.8	.7	4.6	.1	39.4	19.2
30619	Fabricated rubber products, n.e.c.....	.4	7.3	.2	8.2	.7	4.8	.1	40.7	19.7
307	Miscellaneous plastic products.....	.5	1.9	4.8	1.5	-2.0	11.1	.7	33.6	18.5
30719	Fabricated plastics products, n.e.c. (including footwear made wholly of plastic).....	.2	3.1	6.7	1.6	1.9	9.2	.7	23.4	19.3
32	Stone, clay, and glass products.....	-	.1	-	-	1.9	4.3	31.4	39.2	22.3
34	Fabricated metal products.....	2.2	1.0	3.4	.6	3.5	20.3	5.3	35.6	12.7
342	Cutlery, hand tools, and general hardware.....	6.8	3.1	14.1	1.3	6.9	5.7	.4	32.6	9.2
3429	Miscellaneous hardware.....	4.8	3.0	19.9	1.0	10.3	5.3	.3	23.2	10.0
343	Plumbing fixtures and heating apparatus (except electric).....	-	-	.1	.4	3.6	12.8	3.0	24.7	10.9
3433	Heating equipment (except electric)...	.1	-	.1	-	4.0	15.9	4.2	30.3	14.2
344	Structural and miscellaneous metal products.....	.4	-	-	.3	1.6	32.4	7.8	39.4	14.1
345	Bolts, nuts, screws, rivets, washers, and other industrial fasteners.....	11.9	.9	-	.2	7.6	4.2	.7	24.9	3.2
349	Miscellaneous fabricated metal products.....	.9	3.0	2.6	1.6	3.7	5.6	2.1	35.7	21.9

See footnotes at end of table.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**—Continued

TCC code	Commodity	Ton-miles (millions)	Percent distribution by production area ¹ of destination								
			Total	1	2	3	4	5	6	7	8
3494	Valves and pipe fittings (except plumbers' brass goods and fittings)...	20	100.0	1.9	-	1.3	0.3	3.9	-	-	0.4
34941	Metal valves for piping, plumbing, and heating systems.....	11	100.0	3.1	-	1.9	-	3.9	-	-	.8
35	Machinery, except electrical.....	218	100.0	.6	0.9	8.4	.5	.9	1.2	-	.4
356	General industrial machinery and equipment.....	71	100.0	.7	1.6	20.9	.6	1.0	.1	0.1	.3
359	Miscellaneous machinery and parts (except electrical).....	34	100.0	.4	1.5	4.2	.3	2.8	7.4	-	1.3
35999	Machinery and parts, n.e.c. (except electrical).....	34	100.0	.4	1.5	4.2	.3	2.8	7.4	-	1.3
36	Electrical machinery and equipment....	195	100.0	.9	1.4	7.2	3.8	1.2	.4	6.2	.3
361	Electrical transmission and distribution equipment.....	10	100.0	7.4	2.1	11.7	2.0	1.6	1.7	.8	.1
3611	Electrical measuring instruments and test equipment.....	7	100.0	10.3	1.9	11.8	3.1	2.0	2.6	1.1	.1
36113	Indicating, recording, and measuring instruments (electrical qualities or characteristics).....	5	100.0	12.7	.5	3.7	3.7	2.3	2.4	-	.1
362	Electrical industrial apparatus.....	43	100.0	.1	3.2	3.5	.1	1.8	-	1.9	.1
3621	Motors and generators.....	41	100.0	-	3.3	2.7	-	1.8	-	1.3	-
364	Electric lighting and wiring equipment.....	23	100.0	.6	.5	20.0	.6	.4	1.3	-	-
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records..	23	100.0	1.9	1.3	2.7	2.0	1.8	.9	.1	.3
3651	Radio and television receiving sets (except communication types), and phonographs.....	5	100.0	.3	.1	5.4	.1	5.5	2.8	-	.6
3652	Phonograph records, record blanks, and prerecorded tapes.....	17	100.0	2.4	1.7	1.9	2.6	.8	.4	.1	.3
367	Electronic components or accessories..	10	100.0	4.1	6.6	8.3	1.4	2.0	.3	-	.2
3679	Miscellaneous electronic components and accessories.....	9	100.0	4.1	6.7	6.2	1.4	1.1	.2	-	-
37	Transportation equipment.....	351	100.0	.2	.2	3.0	2.6	.4	.1	-	-
371	Motor vehicles and motor vehicle equipment.....	314	100.0	.2	.1	1.9	2.9	.3	.1	-	-
3711	Motor vehicles.....	282	100.0	-	-	1.1	3.1	-	-	-	-
3714	Motor vehicle parts and accessories..	22	100.0	3.5	1.7	12.6	1.2	4.2	-	-	.1
372	Aircraft and parts.....	14	100.0	-	.3	10.3	.4	3.0	-	-	.5
3729	Aircraft parts and equipment, n.e.c....	12	100.0	-	.3	11.2	.5	3.3	-	-	.6
379	Miscellaneous transportation equipment.....	20	100.0	-	1.8	15.1	-	-	-	-	-
38	Instruments, photographic goods, optical goods, watches, and clocks...	15	100.0	2.3	4.3	6.3	.4	1.9	2.8	-	.6
381	Engineering, laboratory, and scientific instruments.....	2	100.0	3.9	.3	9.6	.7	10.5	.8	-	1.3
382	Measuring, controlling, and indicating instruments.....	11	100.0	.4	5.7	4.9	.4	.7	3.5	-	-
39	Miscellaneous products of manufacturing.....	74	100.0	3.1	1.3	13.2	11.3	3.6	.5	.2	.3

See footnotes at end of table.

TABLE 5. Ton-Miles of Shipments—Production Area Destination and Commodity: 1963—Continued

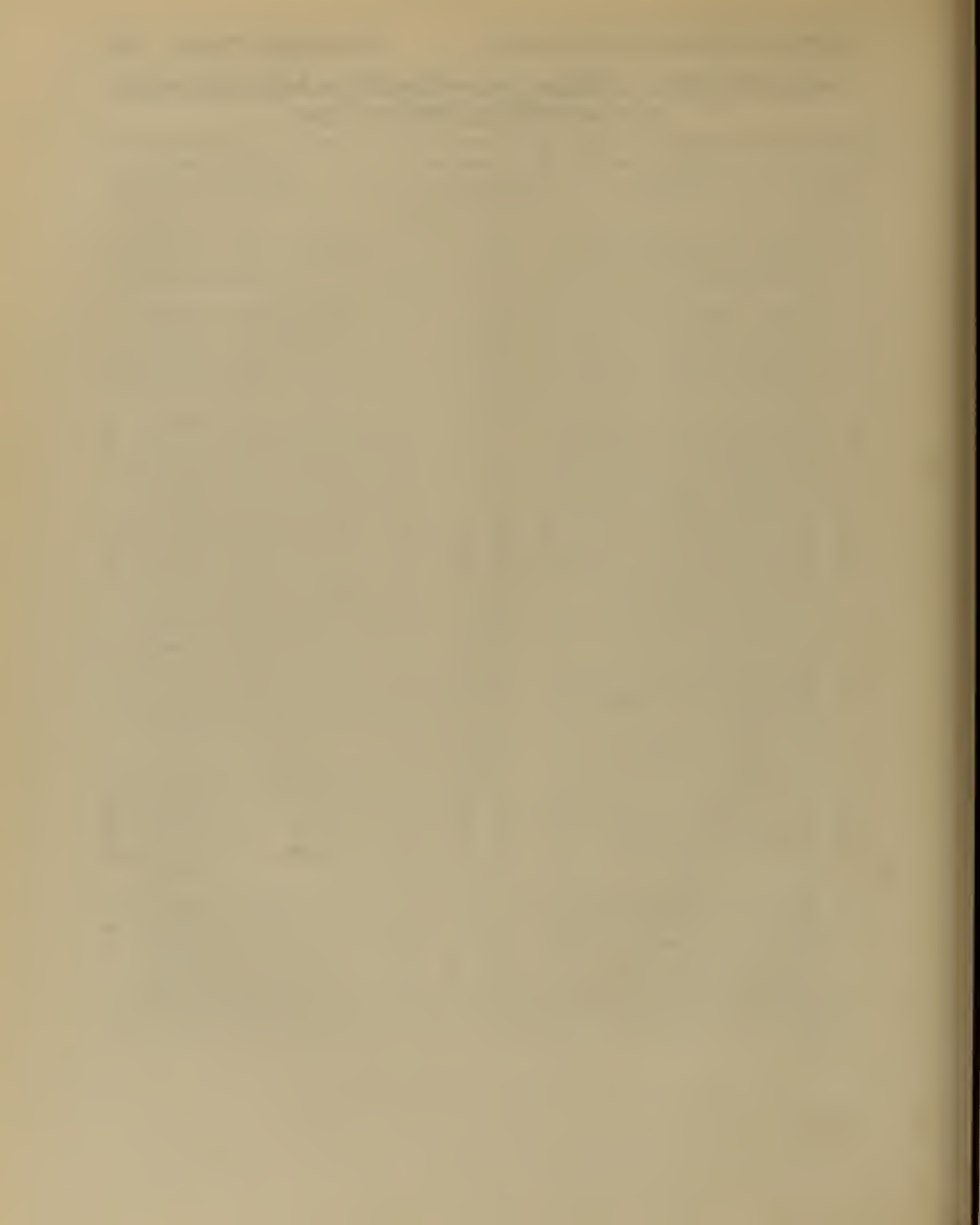
TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued									
		9	10	11	12	13	14	15	16	17	18
3494	Valves and pipe fittings (except plumbers' brass goods and fittings)..	0.2	0.1	9.5	0.1	6.0	0.3	1.6	1.5	0.2	0.3
34941	Metal valves for piping, plumbing, and heating systems.....	.5	.1	16.9	.2	5.9	.3	1.6	2.9	.4	.2
35	Machinery, except electrical.....	1.5	.6	6.3	.3	1.7	.5	2.8	.8	4.0	.5
356	General industrial machinery and equipment.....	3.5	.8	.5	.8	.7	1.2	7.0	2.4	.7	.9
359	Miscellaneous machinery and parts (except electrical).....	.1	.3	29.1	.3	7.3	.1	.8	.2	1.5	.6
35999	Machinery and parts, n.e.c. (except electrical).....	.1	.3	29.2	.3	7.3	.1	.8	.2	1.5	.6
36	Electrical machinery and equipment....	.1	.4	1.0	.1	.7	.3	20.3	.3	1.0	1.2
361	Electrical transmission and distribution equipment.....	.1	.9	.3	.1	2.1	1.1	1.3	.5	.6	.7
3611	Electrical measuring instruments and test equipment.....	.1	1.2	.3	.1	1.7	.8	2.0	.8	.5	.5
36113	Indicating, recording, and measuring instruments (electrical qualities or characteristics).....	-	1.1	.3	.2	2.0	1.1	2.0	.9	.5	.4
362	Electrical industrial apparatus.....	-	.4	3.3	.2	.1	.1	7.6	-	-	4.8
3621	Motors and generators.....	-	.4	3.2	-	-	-	7.9	-	-	5.0
364	Electric lighting and wiring equipment.....	.1	1.9	1.4	-	1.4	.2	3.2	.3	2.2	-
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records..	.3	.3	.5	.2	.9	.9	2.4	1.1	2.6	.8
3651	Radio and television receiving sets (except communication types), and phonographs.....	-	.2	1.4	.4	.5	.4	2.7	.2	3.3	.4
3652	Phonograph records, record blanks, and prerecorded tapes.....	.4	.3	.2	.1	1.0	1.1	2.3	1.4	2.4	.9
367	Electronic components or accessories..	.4	.3	.2	.2	2.3	1.1	5.1	1.0	.3	-
3679	Miscellaneous electronic components and accessories.....	.3	.2	.1	-	2.4	1.1	5.2	1.2	.2	-
37	Transportation equipment.....	1.2	-	.1	-	.9	-	.2	-	-	.2
371	Motor vehicles and motor vehicle equipment.....	1.4	-	.1	-	.9	-	.2	-	-	-
3711	Motor vehicles.....	1.5	-	-	-	.6	-	-	-	-	-
3714	Motor vehicle parts and accessories...	.1	-	1.5	.4	2.3	.1	3.0	.2	.3	.2
372	Aircraft and parts.....	-	.1	.1	-	.3	-	-	-	.3	5.0
3729	Aircraft parts and equipment, n.e.c....	-	.1	.1	-	.4	-	-	-	.3	5.5
379	Miscellaneous transportation equipment.....	-	-	.2	-	-	-	-	-	-	-
38	Instruments, photographic goods, optical goods, watches, and clocks...	.5	4.6	.5	1.2	1.1	.8	1.4	1.5	1.2	.2
381	Engineering, laboratory, and scientific instruments.....	3.0	1.8	.7	4.7	1.0	.2	3.3	.1	.1	.3
382	Measuring, controlling, and indicating instruments.....	.1	5.7	.3	.5	1.3	.8	.5	2.0	-	.1
39	Miscellaneous products of manufacturing.....	.1	.1	.7	.5	2.4	16.0	5.0	.5	2.0	.3

See footnotes at end of table.

TABLE 5. **Ton-Miles of Shipments—Production Area Destination and Commodity: 1963**—Continued

TCC code	Commodity	Percent distribution by production area ¹ of destination—Continued								
		19	20	21	22	23	24	25 ²	30	50
3494	Valves and pipe fittings (except plumbers' brass goods and fittings)...	0.6	4.1	3.7	0.7	2.9	2.0	1.5	33.0	23.9
34941	Metal valves for piping, plumbing, and heating systems.....	-	2.6	3.8	.2	.1	1.6	.7	28.0	24.3
35	Machinery, except electrical.....	2.0	.6	4.6	.4	.2	18.7	1.8	28.5	11.3
356	General industrial machinery and equipment.....	4.6	1.1	6.7	.1	.5	1.1	.2	24.3	17.6
359	Miscellaneous machinery and parts (except electrical).....	.2	.1	-	.5	.4	.4	.2	21.1	18.9
35999	Machinery and parts, n.e.c. (except electrical).....	.2	.1	-	.5	.4	.4	.2	21.0	18.9
36	Electrical machinery and equipment....	.3	3.7	.9	.9	2.7	4.7	.5	26.1	13.4
361	Electrical transmission and distribution equipment.....	.4	.3	4.5	1.0	.8	3.1	1.9	33.6	19.3
3611	Electrical measuring instruments and test equipment.....	.4	.3	6.1	.1	.6	1.8	.4	27.4	22.0
36113	Indicating, recording, and measuring instruments (electrical qualities or characteristics).....	.5	.3	8.0	.1	.6	2.2	.5	31.7	22.2
362	Electrical industrial apparatus.....	-	.1	.1	.1	1.6	9.9	.5	35.1	25.4
3621	Motors and generators.....	-	.1	.1	.1	1.0	10.3	.5	36.2	26.1
364	Electric lighting and wiring equipment	1.1	2.8	3.3	.1	.9	8.9	1.3	30.5	17.0
365	Radio and television receiving sets (except communication types), phonographs, and phonograph records..	.4	13.1	1.5	5.3	11.7	6.2	.3	35.5	5.0
3651	Radio and television receiving sets (except communication types), and phonographs.....	-	9.4	-	4.3	4.5	11.2	.8	32.8	12.7
3652	Phonograph records, record blanks, and prerecorded tapes.....	.6	14.1	1.9	5.6	13.9	4.7	.1	36.1	2.7
367	Electronic components or accessories..	.2	3.5	1.2	.2	.3	.9	.3	10.1	49.5
3671	Miscellaneous electronic components and accessories.....	.3	3.9	1.3	.2	.2	.6	.3	6.3	56.5
37	Transportation equipment.....	.2	2.2	1.3	4.1	8.2	17.8	2.4	37.3	17.4
371	Motor vehicles and motor vehicle equipment.....	-	2.1	1.5	4.5	8.3	19.3	2.4	36.5	17.3
3711	Motor vehicles.....	-	1.4	.8	4.8	8.9	20.7	2.3	38.0	16.8
3714	Motor vehicle parts and accessories...	.6	.4	10.9	.6	3.2	4.5	3.2	24.8	20.4
372	Aircraft and parts.....	3.2	8.0	-	1.3	15.7	.8	1.3	39.5	9.9
3729	Aircraft parts and equipment, n.e.c....	3.4	8.7	-	1.4	15.5	.8	1.2	37.5	9.2
379	Miscellaneous transportation equipment.....	-	-	-	.3	2.8	8.3	3.3	47.7	20.5
38	Instruments, photographic goods, optical goods, watches, and clocks...	36.0	.8	.9	.8	1.3	2.6	.5	13.0	12.5
381	Engineering, laboratory, and scientific instruments.....	.5	1.2	2.7	1.7	1.7	3.0	.3	18.8	27.8
382	Measuring, controlling, and indicating instruments.....	47.9	.6	.8	.7	1.0	2.3	.6	11.5	7.7
39	Miscellaneous products of manufacturing.....	.6	1.8	.9	.6	1.0	4.3	.6	20.1	9.0

¹See description of production areas on page 313.²Includes only those shipments that originated in one city in this area and terminated in another city in this area.



Appendix A

DEFINITIONS OF MAJOR TERMS

Average Length of Haul—Average length of haul is based on straight-line miles from plant to customer or primary redistribution point. It is a weighted average derived by dividing ton-miles by tons. "Average distance" and "average length of haul" are synonymous.

Distance—Distance is based on the straight-line miles between origin and destination cities in the United States, calculated by the use of PICADAD (described below). Straight-line distances are essentially identical to "great circle" or "air" distances. The distance factor for exports is based on the miles from the plant to the port of exit; therefore, the ton-miles figures represent transport service within this country only.

Means of Transport—Each shipping document was classified in terms of the major means of transport used to move the shipment to its destination. If more than one means was used, the transport used to cover the greatest distance was coded. If the shipment was made to a foreign destination, the type of transport used to move the shipment to the port of exit was coded. Means of transport was coded into seven categories as follows:

Rail—Includes all shipments transported by railroad except railway express. If the word "piggyback" appeared on the shipping document, the shipment was coded as moving by railroad because the major distance was assumed to have been by railroad.

Motor carrier—Includes all shipments transported by motor carriers that serve the public. If transport was indicated on the shipping document by the words "truck," "cartage," "drayage," or "trucking," the shipment was coded as moving

by motor carrier. No distinction was made between common or contract carriers. "For-hire" or commercial motor carriers are synonymous with "motor carrier" used in this report.

Private truck—Includes all shipments transported by trucks operated by the shipper or the customer. The combination of private trucks and motor carriers represent virtually the total shipments by highway. "Picked up by customer" was assumed to be by private truck, unless a motor carrier was named in a notation on the document.

Air—Includes all shipments by air, such as "air freight," "air express," and the like.

Water—Includes all shipments transported by ship, boat, barge, and the like between two points in the United States. Shipments destined for foreign ports were coded "water" only if the major distance to the port of exit was negotiated by water. Otherwise, the means used to transport the shipment to the port of exit was coded.

Other—Includes shipments transported by means other than those classified above, except by pipeline. "Other" would include railway express, parcel post, freight forwarders, messenger service, hand carried parcels, bus delivery, etc. Movements by pipeline were declared out of scope of the survey.

Unknown—Those shipping documents that gave no indication of the type of transport used to move the shipments were classed as unknown.

PICADAD—This is a Census Bureau computer system used to automate the geographic aspects of this survey. One of its functions is to compute the straight-line mileage between the city of origin and the city of destination.

Ton-miles—The figure for ton-miles is the product of weight times distance (straight-line miles). For example, a 10-ton shipment that

moved between places that were 1,000 miles apart is equivalent to a 50-ton shipment that moved 200 miles. Both represent 10,000 ton-miles although they differ in terms of both weight and distance.

Tons—The estimates of tons represent generally the shipping weight of commodities rather than net weight. Commodities in this sense represent any physical item, including scrap and waste. "Tons" and "tons originated" are synonymous.

Transportation Commodity Classification—Transportation Commodity Classification (TCC) is used for all series in the Commodity Transportation Survey. It is a 5-digit code that has a structure similar to the Standard Industrial Classification (SIC).¹ The Transportation Commodity Classification was prepared by the

Bureau of the Budget principally for use in the census of transportation. However, it is now in widespread use. The Interstate Commerce Commission has adopted a classification based on the TCC structure and railroads and motor carriers have adopted the "Standard Transportation Commodity Code," which is identical to TCC through the first five digits but is extended to seven digits to give more detail. Since each commodity in this volume contains the TCC number and key description, the TCC classification system has not been completely presented here.²

¹ See *Standard Industrial Classification Manual*, 1957, and *Supplement to the 1957 Edition*, 1963, Executive Office of the President, Bureau of the Budget.

² Where a shipping document included more than one commodity, that commodity with the greatest weight was coded.

Appendix B

DESCRIPTION OF 3-DIGIT TCC GROUPS

Part 2 of the Commodity Transportation Survey presents greater detail for commodities classified at the 3-digit Transportation Commodity Classification (TCC) level. Data are shown for 55 groups of 3-digit commodities in seven tables showing information on tons and ton-miles by distance, weight, origin, and destination. The commodities included in these tables are the following:

TCC	201	Meat, Poultry, and Small Game; Fresh, Chilled or Frozen
	203	Canned and Preserved Fruits, Vegetables, and Seafoods
	204	Grain Mill Products
	207	Confectionery and Related Products
	208	Beverages and Flavoring Extracts
	221	Cotton Broadwoven Fabrics
	228	Thread and Yarn (Cotton, Wool, Silk, and Man-Made Fiber)
	231	Men's, Youths', and Boys' Clothing
	233	Women's, Misses', Girls', and Infants' Clothing
	242	Lumber and Dimension Stock
	244 }	Wooden Containers and Miscellaneous Wood Products
	249 }	
	251 }	Household and Office Furniture and Public Building and Related Furniture
	253 }	
	262	Paper (Except Building Paper)
	264	Converted Paper and Paperboard Products (Except Containers and Boxes)
	265	Containers, Boxes and Related Products, Paperboard, Fiberboard, and Pulpboard
	281	Industrial Chemicals
	282	Plastic Materials and Plasticizers, Synthetic Resins, Rubbers, and Fibers
	284	Soap and Detergents, Cleaning Preparations, Perfumes, Cosmetics, and Other Toilet Preparations
	285	Paints, Varnishes, Lacquers, Enamels, and Allied Products
	289	Miscellaneous Chemical Products
	291	Products of Petroleum Refining
	301	Tires and Inner Tubes
	306	Miscellaneous Fabricated Rubber Products
	307	Miscellaneous Plastic Products
	314	Footwear (Except Rubber)
	322	Glass and Glassware, Pressed and Blown
	329	Abrasives, Asbestos, and Miscellaneous Nonmetallic Mineral Products
	331	Steel Works and Rolling Mill Products
	332	Iron and Steel Castings

- TCC** 335 Nonferrous Metal Basic Shapes
336 Nonferrous and Nonferrous Base Alloy Castings
339 Miscellaneous Primary Metal Products
342 Cutlery, Hand Tools, and General Hardware

343 Plumbing Fixtures and Heating Apparatus (Except Electric)
344 Structural and Miscellaneous Metal Products
345 Bolts, Nuts, Screws, Rivets, Washers, and Other Industrial Fasteners
346 Metal Stampings

349 Miscellaneous Fabricated Metal Products
353 Construction, Mining, and Materials Handling Machinery and Equipment
354 Metalworking Machinery and Equipment
355 Special Industry Machinery (Except Metalworking Machinery)

356 General Industrial Machinery and Equipment
359 Miscellaneous Machinery and Parts (Except Electrical)
361 Electrical Transmission and Distribution Equipment
362 Electrical Industrial Apparatus
363 Household Appliances

364 Electric Lighting and Wiring Equipment
365 Radio and Television Receiving Sets (Except Communication Types),
Phonographs, and Phonograph Records
366 Communication Equipment

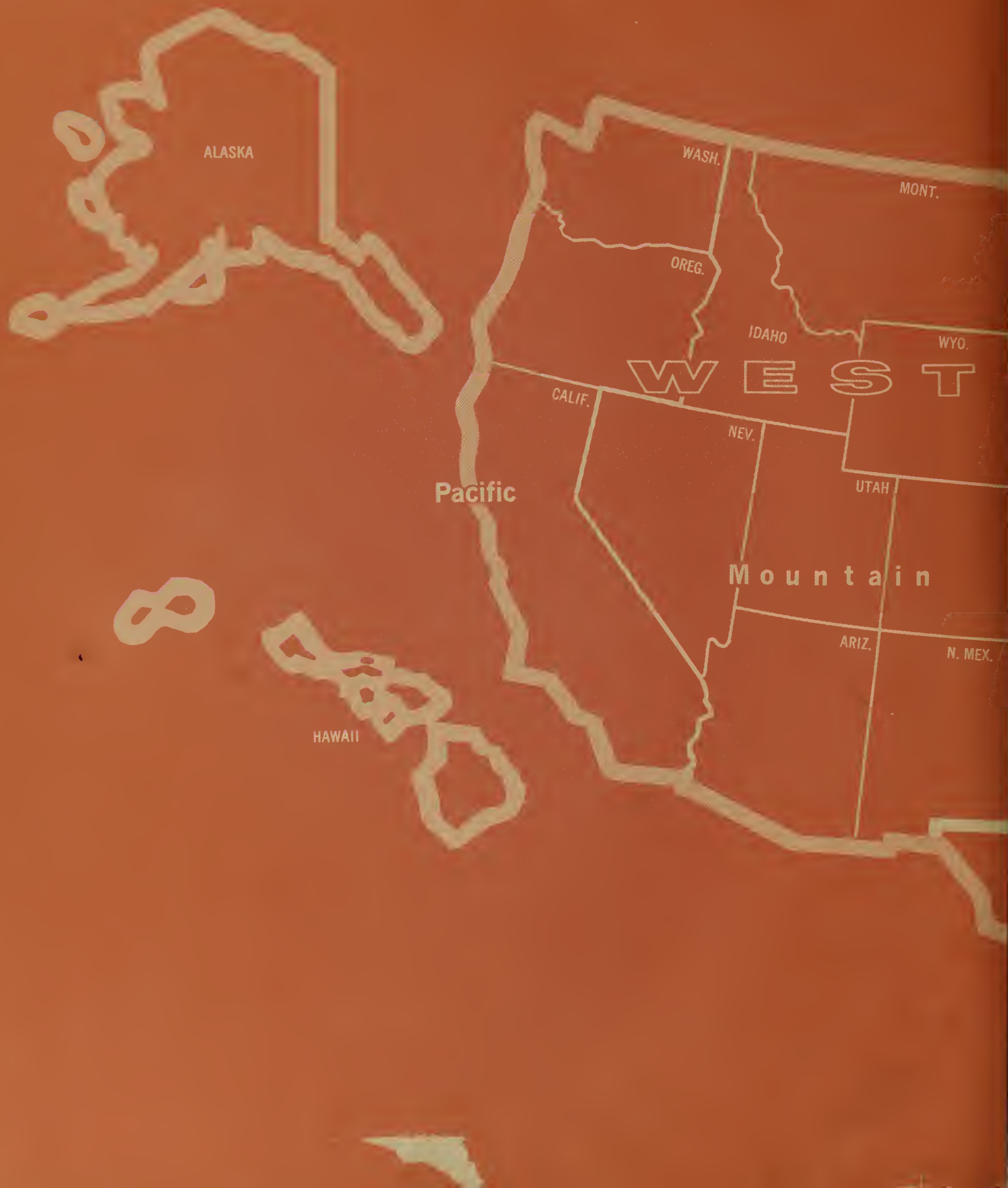
367 Electronic Components or Accessories
371 Motor Vehicles and Motor Vehicle Equipment
382 Measuring, Controlling, and Indicating Instruments
384 Surgical, Medical, and Dental Instruments and Supplies

Appendix C

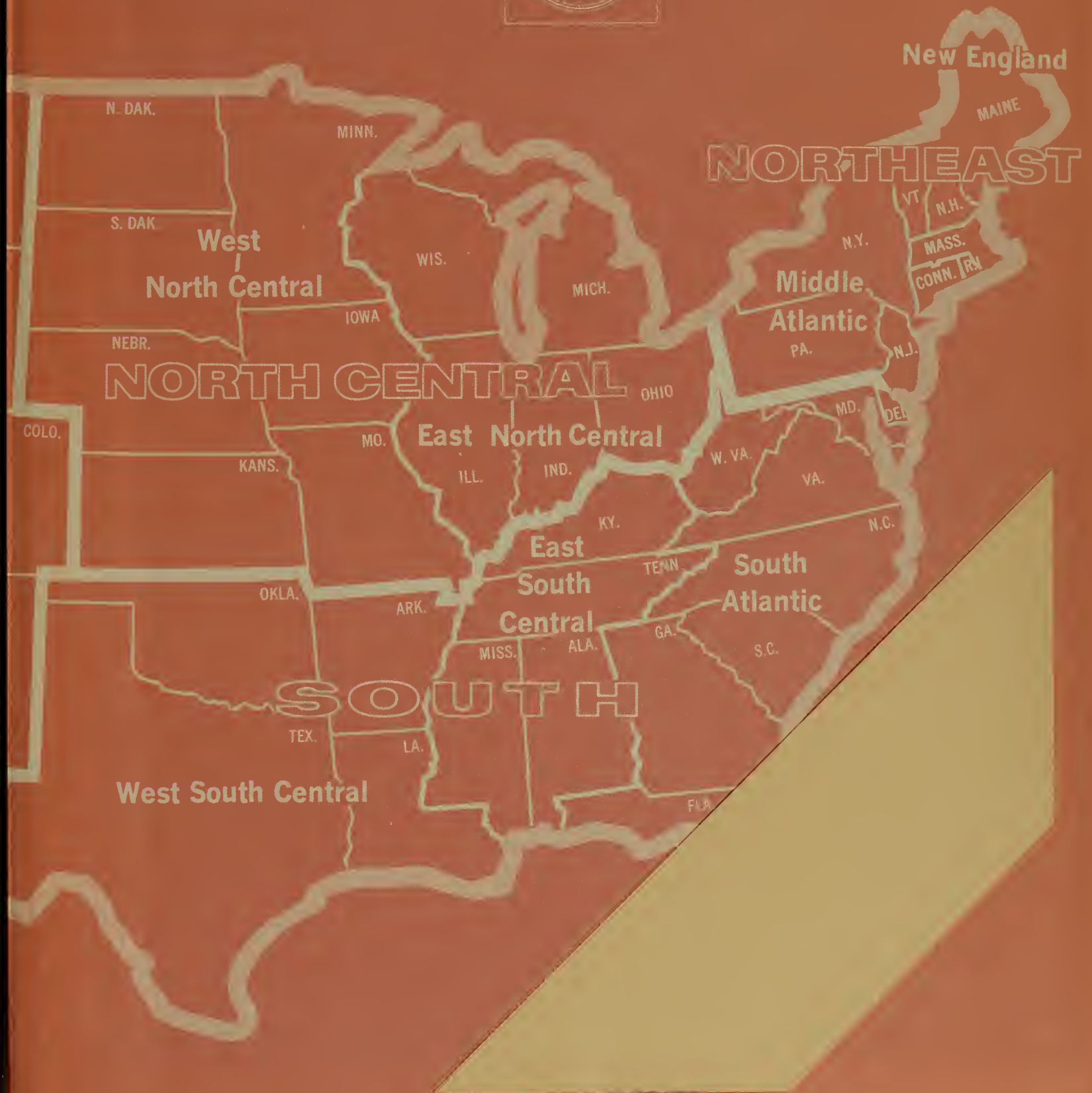
LAYOUT OF SHIPMENT RECORD

Item	Description	Number of characters
PLANT CHARACTERISTICS		
1.	Plant identification:	6
	Company -----	4
	Plant -----	
2.	Standard Industrial Classification (SIC) -----	4
3.	Employment size class -----	1
4.	Plant expansion (two decimals) -----	5
5.	Within-plant expansion -----	4
6.	Type of shipment papers sampled -----	1
7.	Type of sample used to select shipping papers -----	1
8.	Count of the number of shipping papers in sample -----	3
9.	Shipper group (and subgroup) -----	3
10.	Origin:	
	State and Census Division -----	2
	SMSA -----	2
	Production Area -----	2
	County -----	3
SHIPPING PAPER CHARACTERISTICS		
11.	Identification number of document sampled -----	3
12.	Month of shipment -----	2
13.	Type of transport -----	1
14.	Commodity code (TCC) -----	5
15.	Weight in pounds -----	6
16.	Destination:	
	State and Census Division -----	2
	SMSA -----	2
	Production Area -----	2
	County -----	3
17.	Straight-line miles -----	4

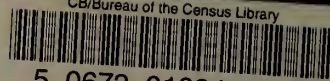
CENSUS REGIONS AND GEOGRAPHIC DIVISIONS



OF THE UNITED STATES



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